DAEWOO

Service Manual

Window Type
Room Air Conditioner

Model: DWB-180RH-R

DWB-186RH-R

DWB-240RH-R

DWB-246RH-R

DAEWOO ELECTRONICS CORP.

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1. SPECIFICATIONS

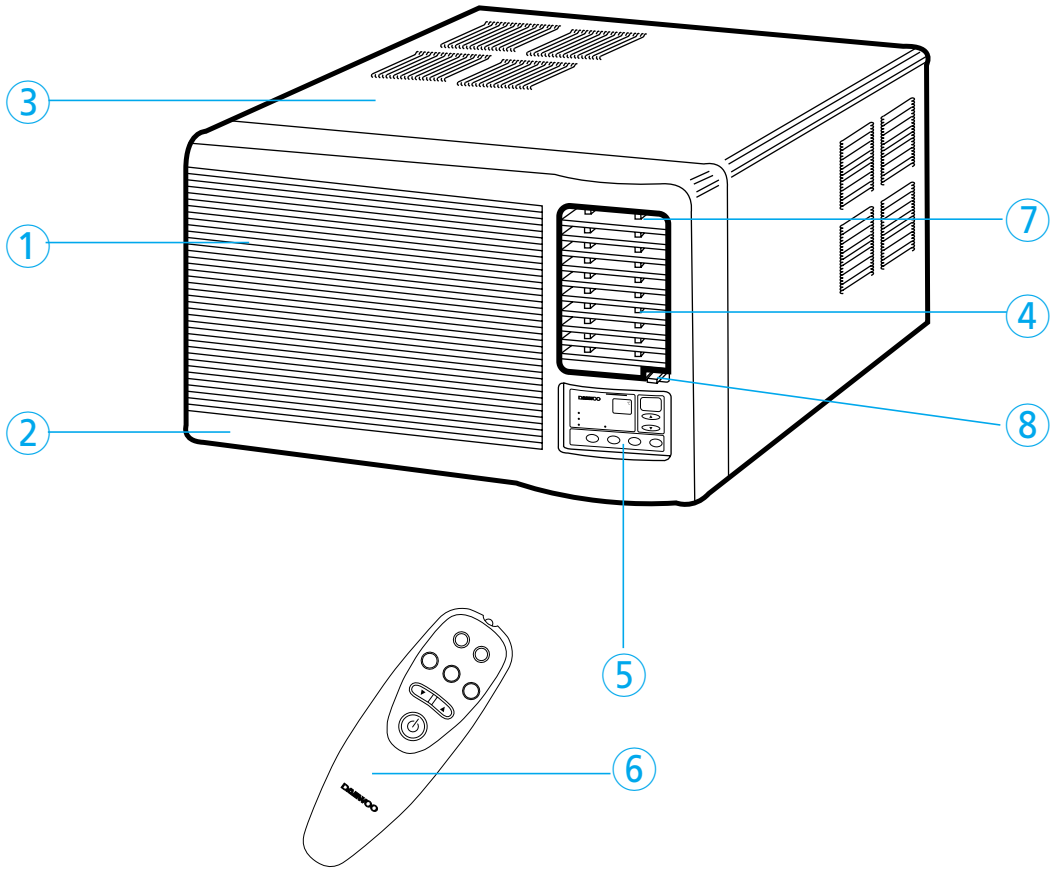
ITEM \ MODEL			DWB-180RH-R	DWB-186RH-R	DWB-240RH-R	DWB-246RH-R
Power Source		V/Ph/Hz	AC 220-240V / 1 / 50Hz			
Capacity (Cooling & Heating)		Btu/h	18,000		24,000	
		Kcal/h	4,530		6,048	
Dehumidification		ℓ/h	2.10			
Electrical Data	Power Input(W)	Cooling	2,240		2,750	
		Heating	1,880		2,350	
	Running Current(A)	Cooling	10.40		13.10	
		Heating	8.80		11.40	
Compressor		Type	Recipro			
		Model	H2EB243ABKC		H2EB283ABKC	
		Capacitor	35μF/400VAC		40μF/370VAC	
		Overload Protector	Internal Type			
Fan Motor		Model	AM12DWD08(D.M.I)		A2945CA011(D.M.I)	
		Capacitor	7.5μF/400VAC		7.5μF/400VAC	
		Indoor-Fan	Blower Fan			
		Outdoor-Fan	Propeller Fan			
Refrigerant (R-22)		Control	Capillary			
		Capillary Tube	ID ø1.4 x L800 x 2		ID ø 1.6 x L1000 x 2	
		Amount (g)	1,230		1,080	
Dimensions (WxHxD)		Unit (mm)	660 x 430 x 705			
		Packing (mm)	711 x 525 x 757			
Weight (Kg)		Net Weight	65		67	
		Gross Weight	69		71.5	

Conditions by JIS C9812

2. OPERATION

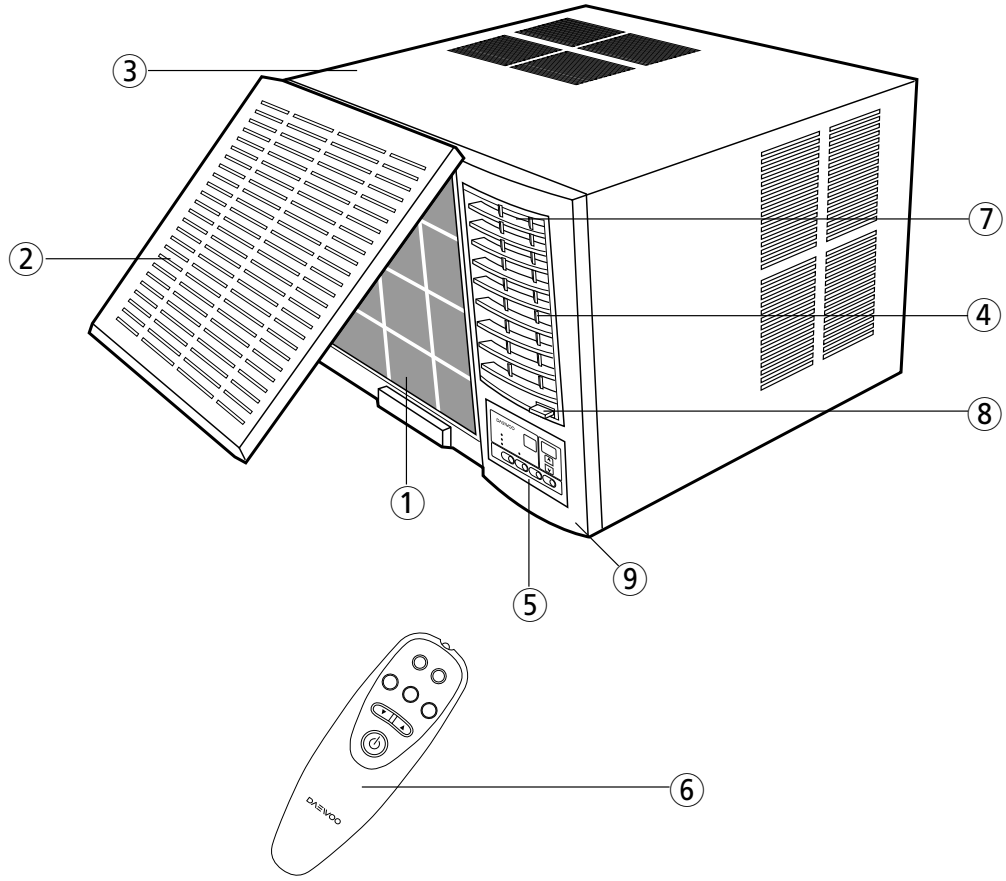
1 PARTS OF NAME AND FUNCTION

• **DWB-180RH-R/DWB-240RH-R**



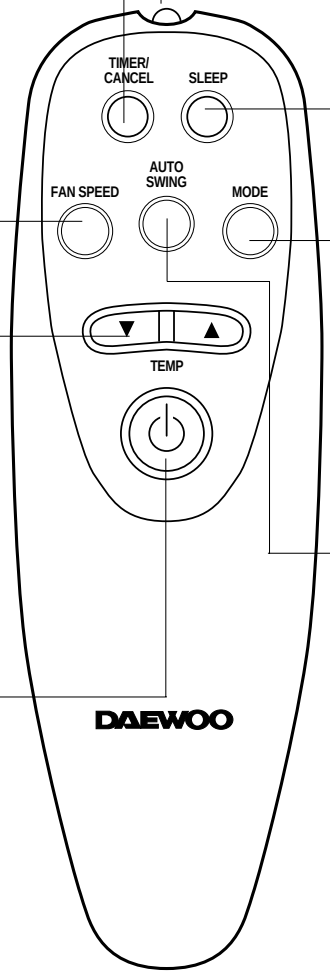
NO	PART NAME	NO	PART NAME
1	AIR FILTER	5	PANEL CONTROL
2	GRILL FRONT	6	REMOTE CONTROLLER
3	CABINET	7	BLADE HORIZENTAL
4	BLADE VERTICAL	8	AIR VENT

• DWB-186RH-R / DWB-246RH-R



NO	PART NAME	NO	PART NAME
1	AIR FILTER	6	REMOTE CONTROLLER
2	INLET GRILLE	7	BLADE HORIZENTAL
3	CABINET	8	AIR VENT
4	BLADE VERTICAL	9	GRILLE FRONT
5	PANEL CONTROL		

2 REMOTE CONTROLLER



REMOCON SIGNAL TRANSMITTER

TIMER/CANCEL
- Everytime you push this button, timer is set as follow. (1Hr→2Hr→3Hr→4Hr→5Hr→6Hr →8Hr→10Hr→12Hr→16Hr→20Hr →24Hr→CANCEL). After the unit is timed, if this button is pushed, timer is canceled.

FAN SPEED
- Everytime you push this button, it is selected as follow. (Low→High→Low)

TEMPERATURE
- It is the button to set the room in the desired room temp. The temp. can be set within a range from 16°C (60°F) to 32°C (90°F) by 1°C (1°F)

POWER ON/OFF
- To turn the unit ON, push this button. To turn the unit OFF, push this button, again.

SLEEP
- SLEEP mode is selected as follow. (L1→L2→Cancel)

MODE
- Everytime you push this button, it is selected as follow. (COOLING→HEATING→ FAN→COOLING)

AUTO SWING
- Everytime you push this button, the auto swing mode is toggled.

3 REMOTE CONTROLLER DISPLAY

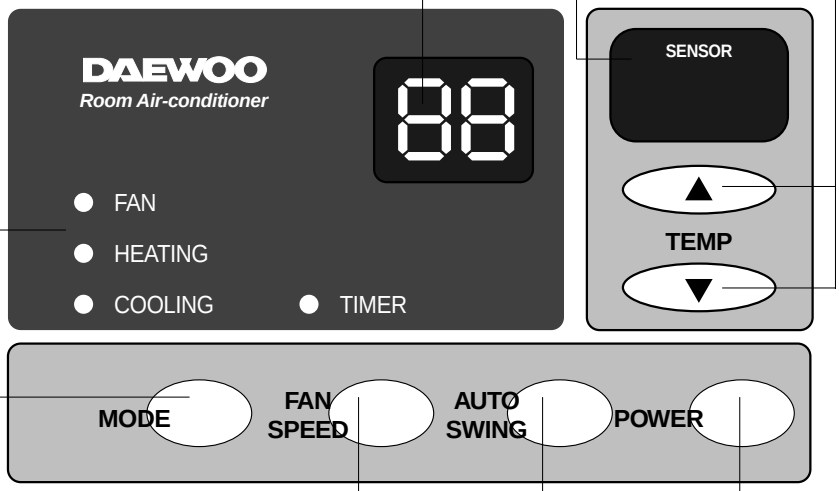
• DWB-180RH-R/DWB-240RH-R

MODE DISPLAY
• It displays the operating mode.

TEMP./TIMER DISPLAY
• It displays the temperature and the timer.

REMOCON SIGNAL RECEIVER

TEMPERATURE SET
• It is the button to set the desired room temperature.
The temperature can be set within a range from 16°C (60°F) to 32°C (90°F) by 1°C (1°F)



FAN SPEED
• Everytime you push this button, It is selected as follow. (Low→High→Low)

POWER ON/OFF SWITCH
• To turn the unit ON, push this button. To turn the unit OFF, push this button again.

AUTO SWING
• Everytime you push this button, the auto swing mode is toggled. (When the fan stops in heating mode, the auto swing is also stopped and restarts when the fan goes run.)

MODE SELECT
• Everytime you push this button, It is selected as follow. (COOLING→HEATING→FAN→COOLING)

⚠ **CAUTION:** When you turn off the unit with cooling mode, the Fan still work for about 10 seconds.

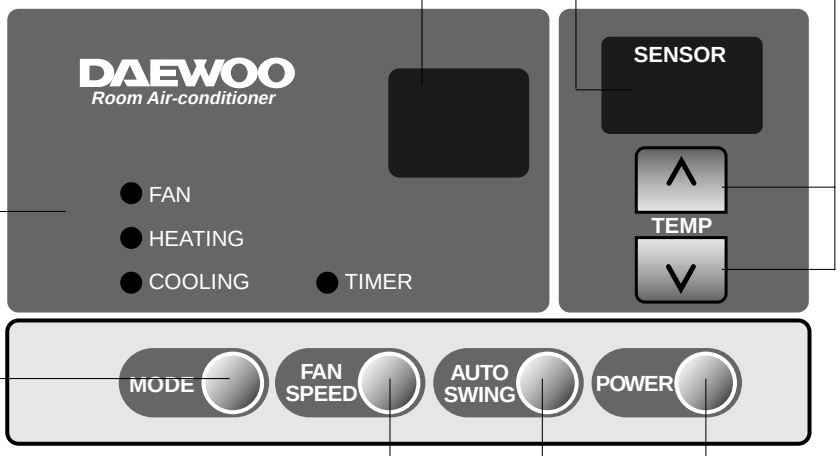
• DWB-186RH-R / DWB-246RH-R

MODE DISPLAY
• It displays the operating mode.

TEMP./TIMER DISPLAY
• It displays the temperature and the timer.

REMOCON SIGNAL RECEIVER

TEMPERATURE SET
• It is the button to set the desired room temperature.
The temperature can be set within a range from 16°C (60°F) to 32°C (90°F) by 1°C (1°F)



FAN SPEED
• Everytime you push this button, It is selected as follow. (Low→High→Low)

POWER ON/OFF SWITCH
• To turn the unit ON, push this button. To turn the unit OFF, push this button again.

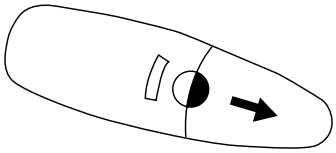
AUTO SWING
• Everytime you push this button, the auto swing mode is toggled.
(When the fan stops in heating mode, the auto swing is also stopped and restarts when the fan goes run.)

MODE SELECT
• Everytime you push this button, It is selected as follow. (COOLING→HEATING→FAN→COOLING)

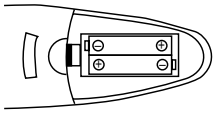
⚠ **CAUTION:** When you turn off the unit with cooling mode, the Fan still work for about 10 seconds.

Replacing Batteries

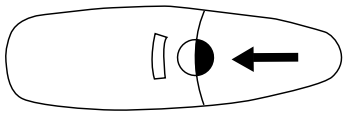
1 Remove the COVER from the back of the remote controller.
- Slide the cover according to the arrow direction



2 Insert two battaries.
- Be sure that the (+) and (–) directions are correct
- Be sure that both batteries are new



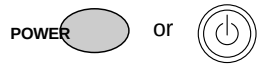
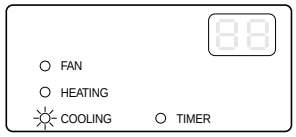
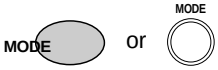
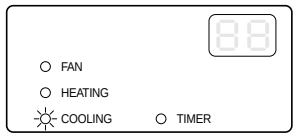
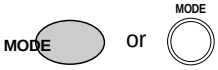
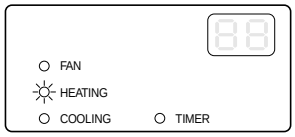
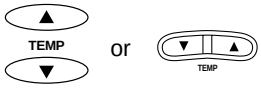
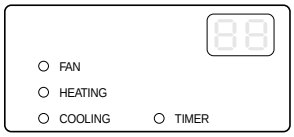
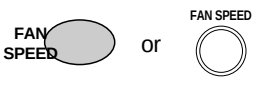
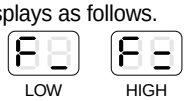
3 Re-attach the cover.
- Slide it back into position

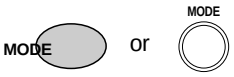
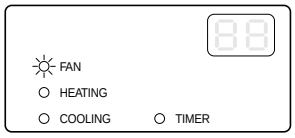
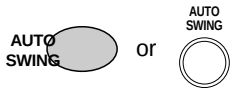
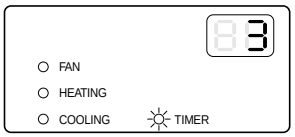
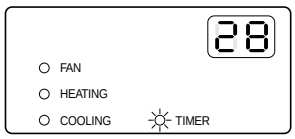


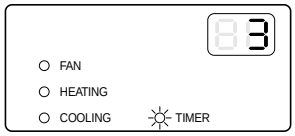
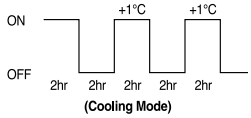
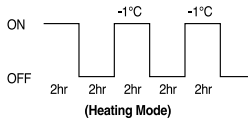
- Do not use rechargeable batteries such batteries differ from standard dry cells in shape, dimensions and performance.
- Remove the batteries from the remote controller if the air conditioner is not going to be used for an extended length of time.

4 OPERATION INSTRUCTION

• DWB-180RH-R/DWB-240RH-R

FUNCTION	OPERATION	DISPLAY
POWER ON  Push POWER button	1. The unit starts working. (It is delayed 30 seconds after main power source is supplied.) when running the unit again after once having stopped it, please wait for over 3 minutes. 2. Default mode is 'COOLING' mode. 3. Default desired room temperature is '26°C' (79°F). And fan speed is 'Low'.	1. Current room temperature is displayed. 2. 'COOLING' lamp lights. 
COOLING MODE  Push the 'MODE' button until 'COOLING' lamp lights.	1. Operating modes are changed as follows by pushing "MODE" button. (COOLING→HEATING→FAN→ COOLING) 2. The compressor and fan work. 3. In this mode you can change fan speed and desired temperature at any time. 4. SLEEP mode and ON/OFF TIMER can be selected. (By remocon button only)	1. Current room temperature is displayed. 2. 'COOLING' lamp lights. 
HEATING MODE  Push the 'MODE' button until 'HEATING' lamp lights.	1. Operating modes are changed as follows by pushing "MODE" button. (COOLING→HEATING→FAN→ COOLING) 2. The compressor and fan work. 3. In this mode you can change fan speed and desired temperature at any time. 4. SLEEP mode and ON/OFF TIMER can be selected. (By remocon button only)	1. Current room temperature is displayed. 2. 'HEATING' lamp lights. 
FAN Delay in heating mode	There are 10 seconds time delay of the Fan Motor, when compressor is starts or stops.	no display
Change desired room temperature  Push the 'TEMP▲▼' button.	1. The desired room temperature is changed within a range from 16°C (60°F) to 32°C (90°F) by 1°C.	1. It display desired room temperature when 'TEMP' button is pushed.  3. After a few seconds, display is changed to current room temperature.
Change 'FAN SPEED'  Push the 'FAN SPEED' button.	1. FAN SPEED is changed as follows by pushing "FAN SPEED" button. (LOW→HIGH→LOW)	1. It displays as follows.  2. After a few seconds, display is changed to current room temperature.

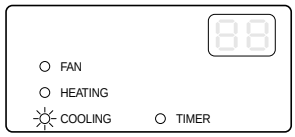
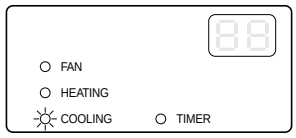
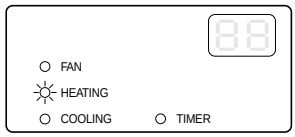
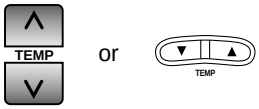
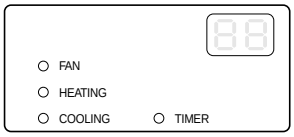
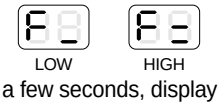
FUNCTION	OPERATION	DISPLAY
FAN MODE  Push the 'MODE' button until 'FAN' lamp lights.	1. The Fan works only. 2. In this mode, the unit circulate room air. 3. Fan speed can be changed.	1. Current room temperature is displayed. 2. 'FAN' lamp lights. 
ON/OFF AUTO SWING  Push the 'AUTO SWING' button.	1. Auto swing function is toggled. 2. Air out-flow direction is changed automatically. (left/right direction) 3. While the fan stops in heating mode, the auto swing is also stopped and restarts when the fan goes run.	There is no change in display.
OFF TIMER Push the 'TIMER/CANCEL' button when unit is working. (REMOCON ONLY)	1. Timer is set to as follows by pushing "TIMER/CANCEL" button. (1hr→2hr→3hr→4hr→5hr→6hr→8hr →10hr→12hr→16hr→20hr→ 24hr→cancel) 2. Unit is off after timer is over. 3. If you want to cancel timer, push this button again at any time.	1. 'TIMER' lamp lights. 2. Setting time is displayed.  3. After a few seconds, display is changed to current room temprature.  4. At this time, operation mode is displayed current setting mode.

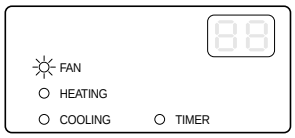
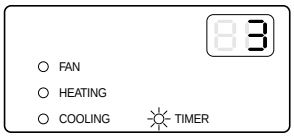
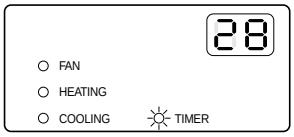
FUNCTION	OPERATION	DISPLAY
ON TIMER Push the 'TIMER/CANCEL' button when unit is off. (REMOCON ONLY)	1. Timer is changed to as follows by pushing "TIMER/CANCEL" button. (1hr→2hr→3hr→4hr→5hr→6hr→8hr →10hr→12hr→16hr→20hr→ 24hr→cancel) 2. The unit starts working after set time is over. (by the operation mode and last setting temperature before the unit is off.) 3. If you want to cancel timer, push this button again at any time.	1. 'TIMER' lamp lights. 2. Setting time is displayed.  3. After a few seconds, display is changed to current room temperature.
SLEEP MODE Push the 'SLEEP' button in 'COOLING' mode and HEATING MODE. (REMOCON ONLY) Defrost the heat-exchanger of the outside (in heating mode)	1. SLEEP MODE is changed as follows by pushing "SLEEP" button. (L1→L2→Cancel) * L1 Mode – The unit is off after 4 hours. – The desired Temp is increased 3°C (5.4°F) for 4 hours in Cooling mode. – The desired temp is decreased 3°C (5.4°F) for 4 hours in heating mode. – Auto swing is selected. – Fan speed is set to 'LOW'. * L2 Mode – The unit work; as follow  (Cooling Mode)  (Heating Mode) – Auto swing is selected. – Fan speed is set to 'LOW'. 2. This mode can be selected in 'COOLING' and 'HEATING' mode only.	1. 'L1' or 'L2' is displayed.
	The unit runs 50 minutes The unit will start defrost function when the temperature of the heat exchanger of the outside arrived at the programed temperature. If not arrived at the programed temperature, the unit continuousiy runs the heating mode. While the defrost function is working the unit runs cooling cycle but the fan stops.	no display

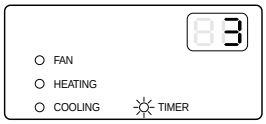
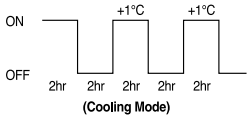
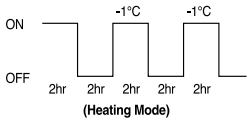
• ROOM TEMPERATURE DISPLAY.

Over 45°C or 100°F	
5°C~45°C or 41°F~99°F	DISPLAY TEMPERATURE
Below 5°C (41°F)	

• DWB-186RH-R / DWB-246RH-R

FUNCTION	OPERATION	DISPLAY
POWER ON Push POWER button	1. The unit starts working. (It is delayed 30 seconds after main power source is supplied.) when running the unit again after once having stopped it, please wait for over 3 minutes. 2. Default mode is 'COOLING' mode. 3. Default desired room temperature is '26°C' (79°F). And fan speed is 'LOW'.	1. Current room temperature is displayed. 2. 'COOLING' lamp lights. 
COOLING MODE Push the 'MODE' button until 'COOLING' lamp lights.	1. Operating modes are changed as follows by pushing "MODE" button. (COOLING→HEATING→FAN→ COOLING) 2. The compressor and fan work. 3. In this mode you can change fan speed and desired temperature at any time. 4. SLEEP mode and ON/OFF TIMER can be selected. (By remocon button only)	1. Current room temperature is displayed. 2. 'COOLING' lamp lights. 
HEATING MODE Push the 'MODE' button until 'HEATING' lamp lights.	1. Operating modes are changed as follows by pushing "MODE" button. (COOLING→HEATING→FAN→ COOLING) 2. The compressor and fan work. 3. In this mode you can change fan speed and desired temperature at any time. 4. SLEEP mode and ON/OFF TIMER can be selected. (By remocon button only)	1. Current room temperature is displayed. 2. 'HEATING' lamp lights. 
FAN Delay in heating mode	There are 10 seconds time delay of the Fan Motor, when compressor is starts or stops.	no display
Change desired room temperature  Push the 'TEMP▲▼' button.	1. The desired room temperature is changed within a range from 16°C (60°F) to 32°C (90°F) by 1°C.	1. It display desired room temperature when 'TEMP' button is pushed.  3. After a few seconds, display is changed to current room temperature.
Change 'FAN SPEED' Push the 'FAN SPEED' button.	1. FAN SPEED is changed as follows by pushing "FAN SPEED" button. (LOW→HIGH→LOW)	1. It displays as follows.  2. After a few seconds, display is changed to current room temperature.

FUNCTION	OPERATION	DISPLAY
FAN MODE Push the 'MODE' button until 'FAN' lamp lights.	1. The Fan works only. 2. In this mode, the unit circulate room air. 3. Fan speed can be changed.	1. Current room temperature is displayed. 2. 'FAN' lamp lights. 
ON/OFF AUTO SWING Push the 'AUTO SWING' button.	1. Auto swing function is toggled. 2. Air out-flow direction is changed automatically. (left/right direction) 3. While the fan stops in heating mode, the auto swing is also stopped and restarts when the fan goes run.	There is no change in display.
OFF TIMER Push the 'TIMER/CANCEL' button when unit is working. (REMOCON ONLY)	1. Timer is set to as follows by pushing "TIMER/CANCEL" button. (1hr→2hr→3hr→4hr→5hr→6hr→8hr →10hr→12hr→16hr→20hr→ 24hr→cancel) 2. Unit is off after timer is over. 3. If you want to cancel timer, push this button again at any time.	1. 'TIMER' lamp lights. 2. Setting time is displayed.  3. After a few seconds, display is changed to current room temprature.  4. At this time, operation mode is displayed current setting mode.

FUNCTION	OPERATION	DISPLAY
ON TIMER Push the 'TIMER/CANCEL' button when unit is off. (REMOCON ONLY)	1. Timer is changed to as follows by pushing "TIMER/CANCEL" button. (1hr→2hr→3hr→4hr→5hr→6hr→8hr→10hr →12hr→16hr→20hr→24hr→cancel) 2. The unit starts working after set time is over. (by the operation mode and last setting temperature before the unit is off.) 3. If you want to cancel timer, push this button again at any time.	1. 'TIMER' lamp lights. 2. Setting time is displayed.  3. After a few seconds, display is changed to current room temperature.
SLEEP MODE Push the 'SLEEP' button in 'COOLING' mode and HEATING MODE. (REMOCON ONLY)	1. SLEEP MODE is changed as follows by pushing "SLEEP" button. (L1→L2→Cancel) * L1 Mode – The unit is off after 4 hours. – The desired Temp is increased 3°C (5.4°F) for 4 hours in Cooling mode. – The desired temp is decreased 3°C (5.4°F) for 4 hours in heating mode. – Auto swing is selected. – Fan speed is set to 'LOW'. * L2 Mode – The unit work; as follow  (Cooling Mode)  (Heating Mode) – Auto swing is selected. – Fan speed is set to 'LOW'. 2. This mode can be selected in 'COOLING' and 'HEATING' mode only.	1. 'L1' or 'L2' is displayed.
Defrost the heat-exchanger of the outside (in heating mode)	The unit runs 50 minutes The unit will start defrost function when the temperature of the heat exchanger of the outside arrived at the programed temperature. If not arrived at the programed temperature, the unit continuousiy runs the heating mode. While the defrost function is working the unit runs cooling cycle but the fan stops.	no display

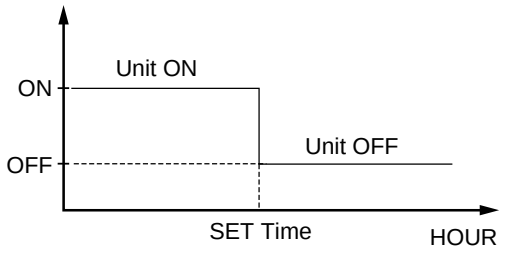
• ROOM TEMPERATURE DISPLAY.

Over 45°C or 100°F	
5°C~45°C or 41°F~99°F	DISPLAY TEMPERATURE
Below 5°C (41°F)	

5 DESCRIPTION OF FUNCTIONS

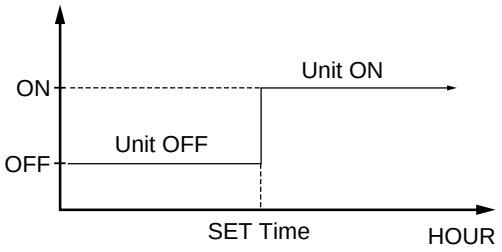
OFF-Timer

If you set time in OFF-Timer Mode, the unit will stop at the set time.



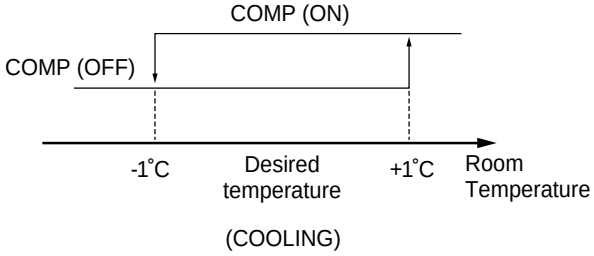
ON-Timer

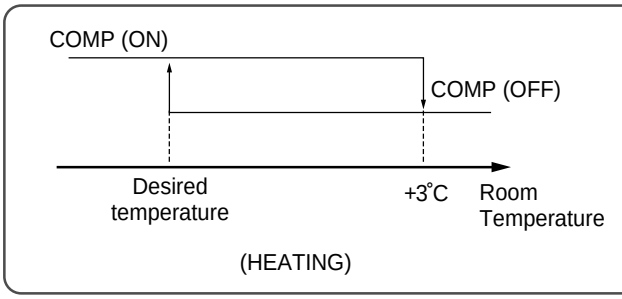
If you set time in ON-Timer Mode, the unit will run at the set time.



Control of Room Temperature

(1) Range of setting temperature: 16~32°C
(2) Setting temperature: Operating temperature of compressor





Buzzer

If the Unit Display receive the signal of Remote Controller, you can hear the signal "beep –" or "beep, beep".

Fan Speed

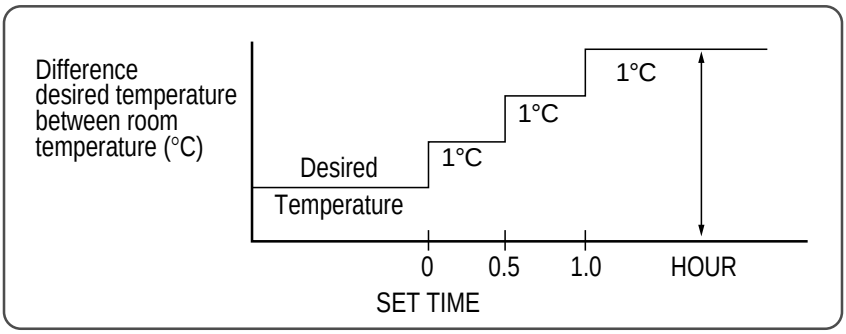
(1) Motor speed (high speed, low speed).
(2) Remote controller setting fan speed. (H, L)
(3) Relation of operating mode between fan speed.

	FAN ONLY	COOL	HEAT
H	H	H	H
L	L	L	L

Sleep Mode

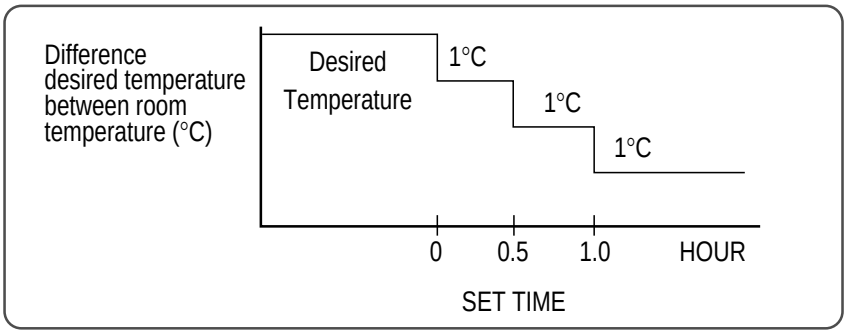
(1) When you are going to sleep, select sleep button in remocon and the unit controls the room to the desired temperature. (The unit will not operate after 4 hour)
(2) For changing the temperature.

• L1 Mode (Cooling)



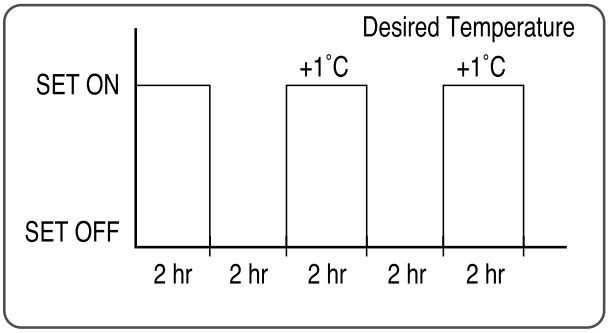
• The unit will not operate after 4 hour.

• L1 Mode (Heating)



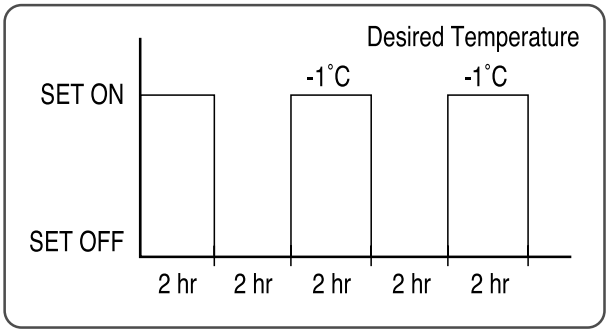
• The unit will not operate perfectly after 4 hour.

• L2 Mode (Cooling)



• The unit will not operate perfectly after 10 hour.

• L2 Mode (Heating)



• The unit will not operate perfectly after 10 hour.

(3) To cancel sleep mode, press the SLEEP button again or press the MODE button once. : the SLEEP indicator will disappear in the display.

3min. Time Delay of Compressor

In normal operation, there is a time delay of three minutes between turn off and turning back on including initial power up. (but when the unit resets the time delay is 30 seconds)

Auto Swing

(1) When you push this button, in remocon the left/right flap move to the position of keeping the room temperature comiortable.
(2) The air discharge direction procedure is below.

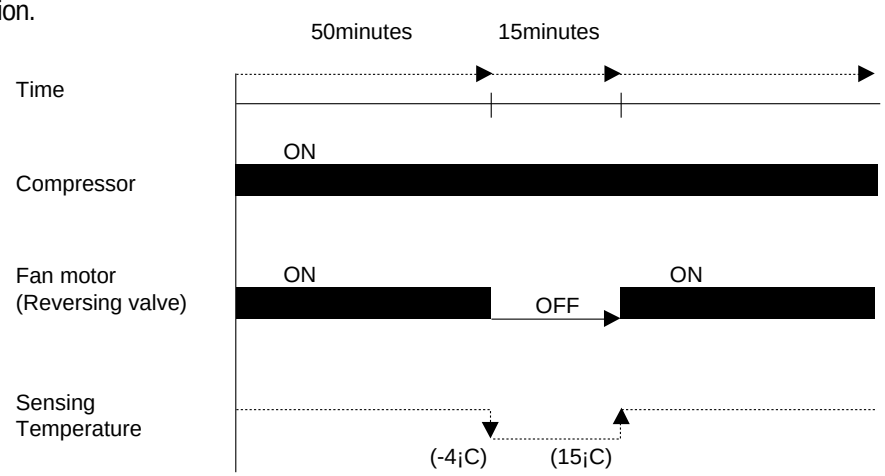
Auto swing ◄——————► Fixed

DE-ICE OPERATION

Entering de-ice operation(to turn cooling cycle).
1. The micro-computer chip is check the temperature of condensor, After 50 minutes since the units starts on heating mode.
2. If the Temperature is below -4˚C, the De-ice function will start.
3. Now, the unit turned to cooling operation but fan motor is off.

Back to heat mode.
1. On the de-ice operation if the temperature is going over 15˚C.
2. Or 15minutes passed on the de-ice operation.
3. Now the unit turned to heating mode.

Remark: This de-ice operation is always repeat in heating mode when satisfying of the condition to enter the de-ice operation.

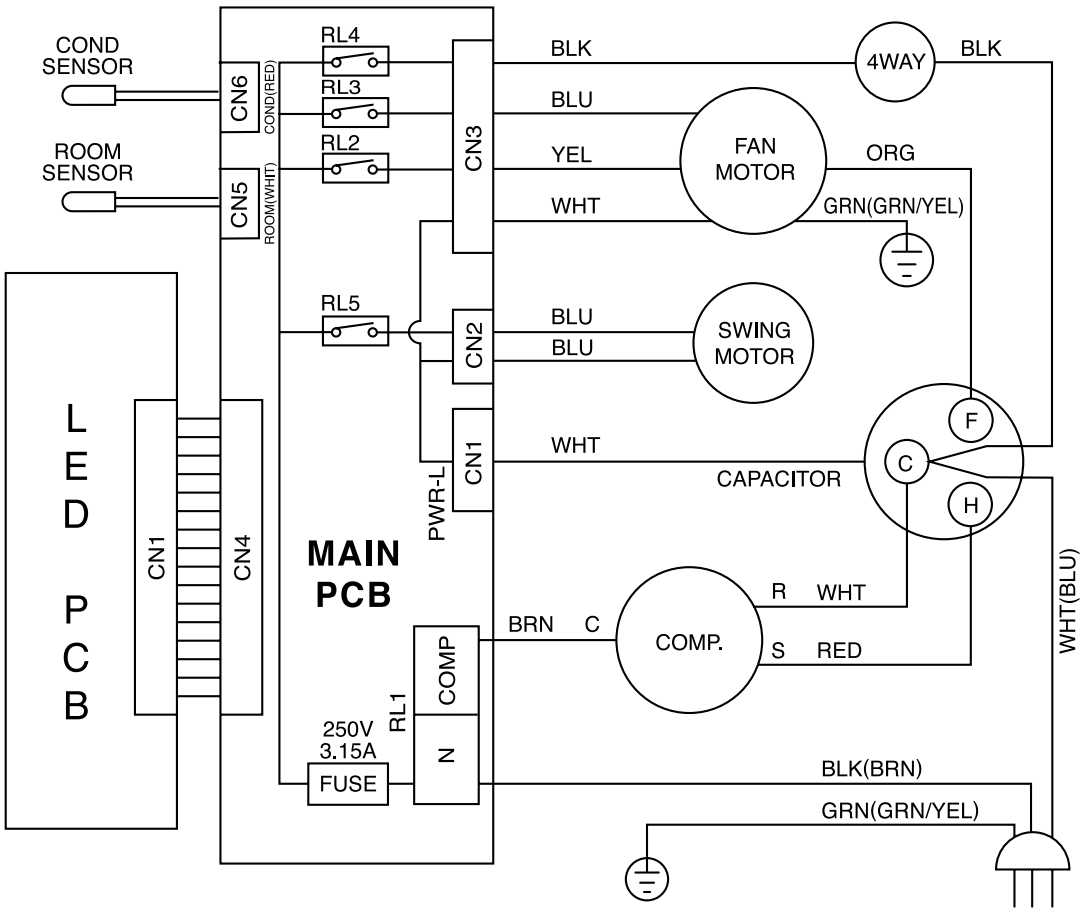


Self-Diagnostic Function

The control will contain diagnostic test to verify the integrity of the system.
(1) Error Code Display

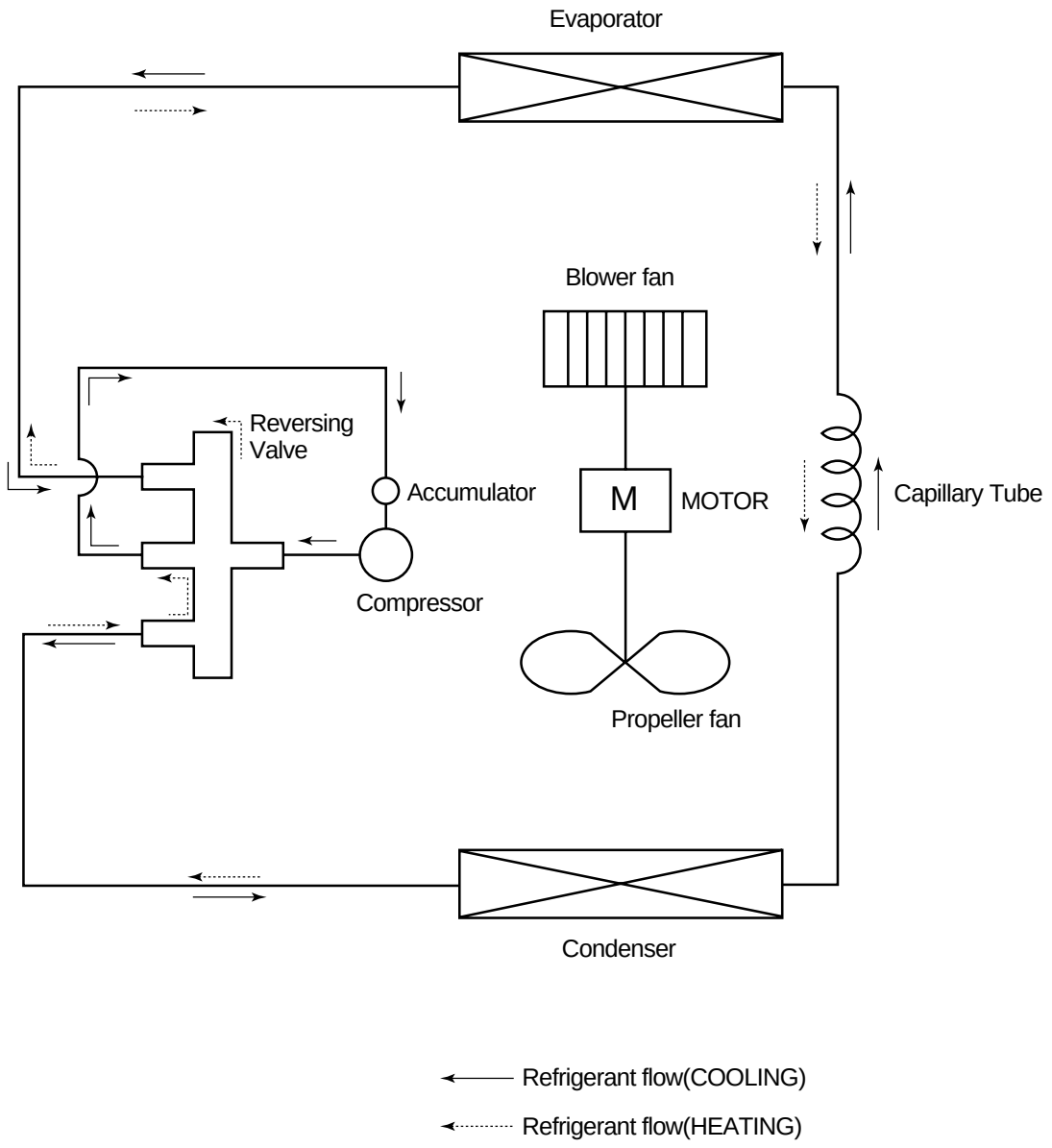
ERROR CODE	88 LED DISPLAY	ERROR CONTENTS
1	E1	• Room air thermistor open. • Heat exchanger thermister open
2	E2	• Room air thermister short • Heat exchanger thermister short

3. WIRING DIAGRAM

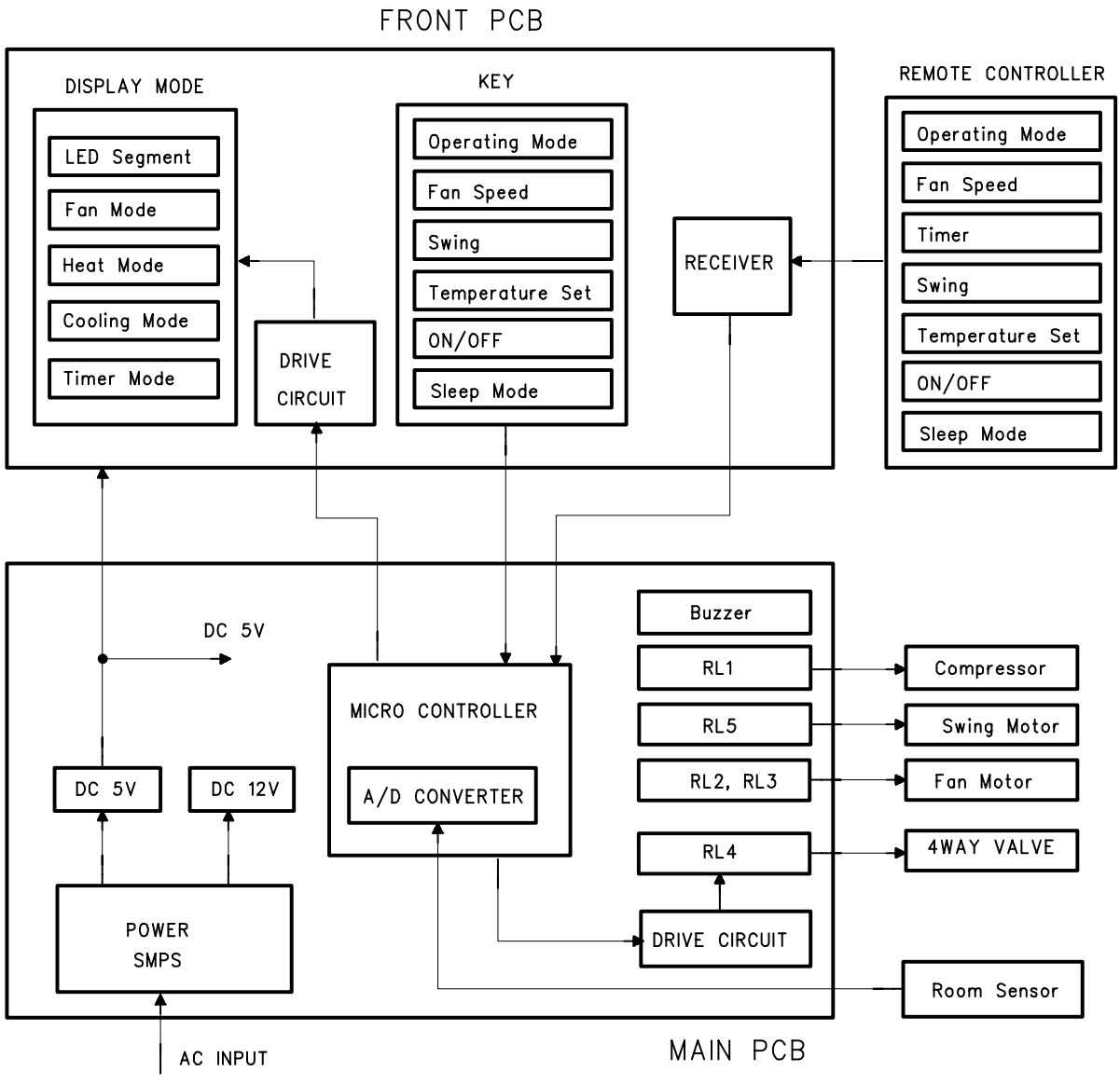


3113599A00

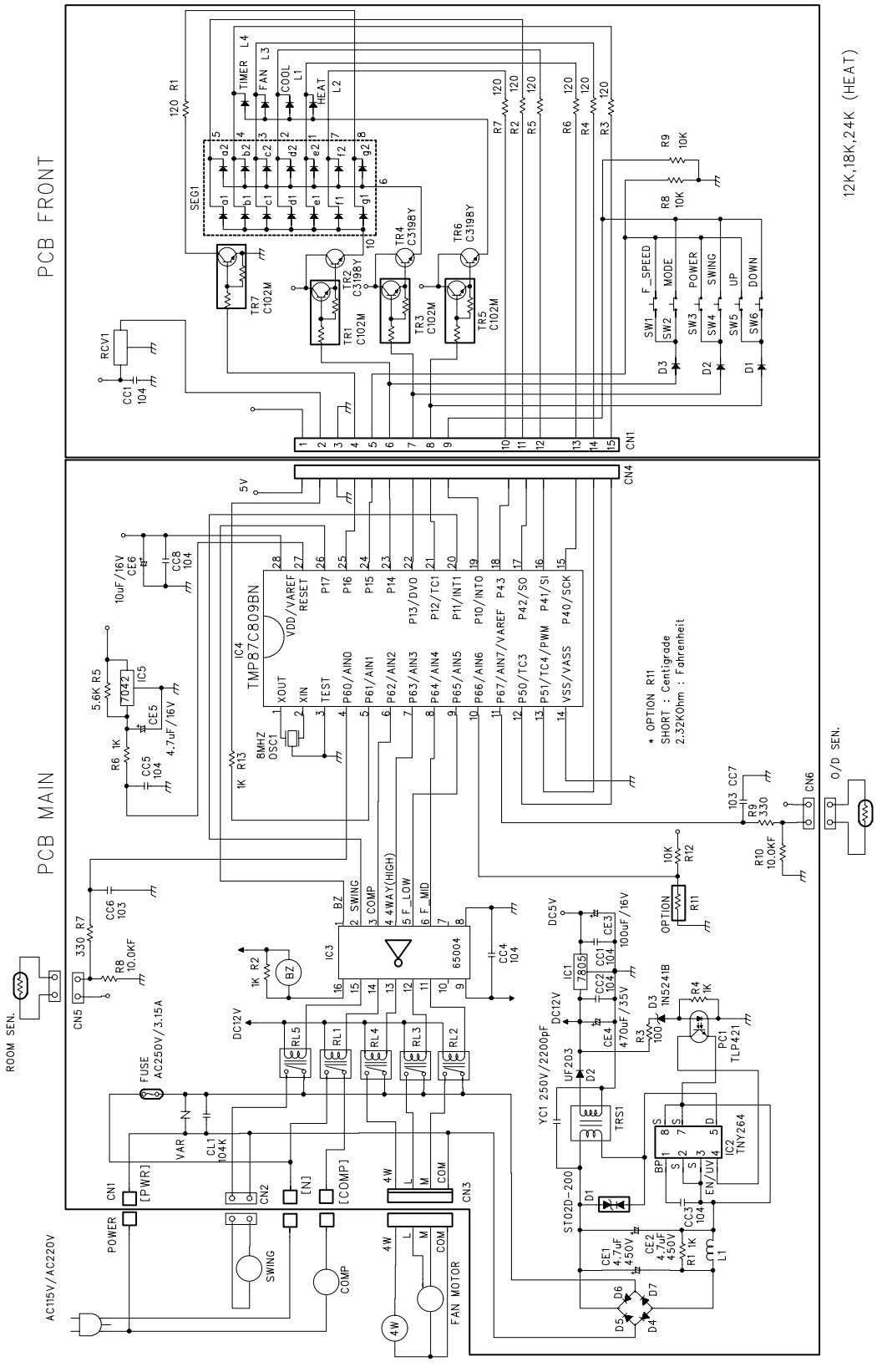
4. REFRIGERANT CYCLE



5. CONTROL BLOCK DIAGRAM



6. CIRCUIT DIAGRAM



✔ **Caution** : In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

Part List

● MAIN PCB ASS'Y(3114306800)

NO	PART NAME	SPEC	PART CODE	Q'TY	REMARK
1	BUZZER	DP-2520BA	3105698200	1	BZ1
2	C-CERA	104M 50VDC	CCXE1H104M	1	CC1
3	C-CERA	104M 50VDC	CCXE1H104M	1	CC2
4	C-CERA	104M 50VDC	CCXE1H104M	1	CC3
5	C-CERA	104M 50VDC	CCXE1H104M	1	CC4
6	C-CERA	104M 50VDC	CCXE1H104M	1	CC5
7	C-CERA	103M 50VDC	CCXE1H103M	1	CC6
8	C-CERA	103M 50VDC	CCXE1H103M	1	CC7
9	C-CERA	104M 50VDC	CCXE1H104M	1	CC8
10	C-ELEC	10UF 450V SD	CEXE2W106C	1	CE1
11	C-ELEC	10UF 450V SD	CEXE2W106C	1	CE2
12	C-ELEC	100MF 16V SD	CEXE1C107C	1	CE3
13	C-ELEC	470MF 35V SD	CEXE1V477C	1	CE4
14	C-ELEC	4.7MF 50V SS	CEXE1C475A	1	CE5
15	C-ELEC	10MF 16V SS	CEXE1C106A	1	CE6
16	C-LINE ACROSS	275V 104K(PILKOR)	CLV-B3104M	1	CL1
17	FUSE CLIP	AFC-520	3107000600	2	CLIP
18	PIN	GP881206-2(250)	3108803500	1	CN1
19	WAFER	YW396-03AV	3108802500	1	CN2
20	WAFER	YPW500-04	3108805500	1	CN3
21	WAFER	SMW250-15,WHITE	3108806500	1	CN4
22	WAFER	SMW250-02	3108804200	1	CN5
23	WAFER	SMW250-02	3108804210	1	CN6
24	DIODE	ST02D-200	DZST02D200	1	D1
25	DIODE	UF203	DZUF203---	1	D2
26	DIODE ZENOR	1N5241B	DZN5241B--	1	D3
27	DIODE	IN4007A	DZN4007A--	1	D4
28	DIODE	IN4007A	DZN4007A--	1	D5
29	DIODE	IN4007A	DZN4007A--	1	D6
30	DIODE	IN4007A	DZN4007A--	1	D7
31	FUSE GLASS TUBE	250V/50T 3.15A	5FVLB3152L	1	FUSE
32	IC REGULATOR	L7805CV	1L7805CV--	1	IC1
33	IC SMPS	TNY264P	1TNY264P--	1	IC2
34	IC DRIVER	ULN2004AP(M)	13GT62004A	1	IC3
35	IC MICOM	TMP87C809BN-4K75	13GS4K75--	1	IC4
36	IC RESET	KIA7042P 5L	1KA7042P--	1	IC5
37	CHOKE COIL	1MH,0.5A	52C102K000	1	L1
38	RESONATOR	CRTL8.00MSOT	5PCRTL8MS0	1	OSC1
39	IC PHOTOCOUPLER	TLP421	1TLP421---	1	PC1
40	PCB MAIN	80X130X1.6T,FR1	3114306210	1	PCB
41	R CARBON FILM	1/4 1K OHM J	RD-4K102J-	1	R1
42	JUMPER	10MM	3109400100	1	R11
43	R CARBON FILM	1/4 10K OHM J	RD-4K103J-	1	R12
44	R CARBON FILM	1/4 1K OHM J	RD-4K102J-	1	R13
45	R CARBON FILM	1/4 1K OHM J	RD-4K102J-	1	R2
46	R CARBON FILM	1/4 100 OHM J	RD-4K101J-	1	R3
47	R CARBON FILM	1/4 1K OHM J	RD-4K102J-	1	R4
48	R CARBON FILM	1/4 5.6K OHM J	RD-4K562J-	1	R5
49	R CARBON FILM	1/4 1K OHM J	RD-4K102J-	1	R6
50	R CARBON FILM	1/4 330 OHM J	RD-4K331J-	1	R7
51	R METAL FILM	1/4 10.0K OHM F	RN-4K1002F	1	R8
52	R CARBON FILM	1/4 330 OHM J	RD-4K331J-	1	R9
53	R METAL FILM	1/4 10.0K OHM F	RN-4K1002F	1	R10
54	SW RELAY	PCF-112-D-1M	5SC010141B	1	RL1
55	RELAY	US11-12S	5SC0101310	1	RL2
56	RELAY	US11-12S	5SC0101310	1	RL3
57	RELAY	US11-12S	5SC0101310	1	RL4
58	RELAY	US11-12S	5SC0101310	1	RL5
59	TRANS SMPS	264P,1916	5EMU1916--	1	TRS1
60	VARISTOR	15G561K/350V	D15G561K--	1	VAR
61	C CERA	2200PF,250V,Y1	CH1BFB222K	1	YC1

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●Front PCB ASS'Y(3114306100)

LOC	CODE	PART NAME	SPEC	QTY	REMARK
1	CCXE1H103M	C-CERA	103M 50VDC	1	CC1
2	3108806600	WAFER	SMAW250-15,WHITE	1	CN1
3	DZN4148FTB	DIODE	1N4148 AUTO 26MM	1	D1
4	DZN4148FTB	DIODE	1N4148 AUTO 26MM	1	D2
5	DZN4148FTB	DIODE	1N4148 AUTO 26MM	1	D3
6	DDLG5031D-	LED	DLG-5031D(GRN)	1	L1
7	DDLG5031D-	LED	DLG-5031D(GRN)	1	L2
8	DDLG5031D-	LED	DLG-5031D(GRN)	1	L3
9	DDLG5031D-	LED	DLG-5031D(GRN)	1	L4
10	3114306110	PCB FRONT	121X69.5X1.6T,FR1	1	PCB
11	RD-4K121J-	R CARBON FILM	1/4 120 OHM J	1	R1
12	RD-4K121J-	R CARBON FILM	1/4 120 OHM J	1	R2
13	RD-4K121J-	R CARBON FILM	1/4 120 OHM J	1	R3
14	RD-4K121J-	R CARBON FILM	1/4 120 OHM J	1	R4
15	RD-4K121J-	R CARBON FILM	1/4 120 OHM J	1	R5
16	RD-4K121J-	R CARBON FILM	1/4 120 OHM J	1	R6
17	RD-4K121J-	R CARBON FILM	1/4 120 OHM J	1	R7
18	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	R8
19	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	R9
20	1354HF2---	RECEIVER MODULE	354HF2	1	RCV1
21	3103003700	LED SEGMENT	DDG-5026M(CATHODE)	1	SEG1
22	3109300900	SWITCH TACT	JTP1212	1	SW1
23	3109300900	SWITCH TACT	JTP1212	1	SW2
24	3109300900	SWITCH TACT	JTP1212	1	SW3
25	3109300900	SWITCH TACT	JTP1212	1	SW4
26	3109300900	SWITCH TACT	JTP1212	1	SW5
27	3109300900	SWITCH TACT	JTP1212	1	SW6
28	TKRC102M--	TR	KRC 102-M (TAPPING)	1	TR1
29	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	1	TR2
30	TKRC102M--	TR	KRC 102-M (TAPPING)	1	TR3
31	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	1	TR4
32	TKRC102M--	TR	KRC 102-M (TAPPING)	1	TR5
33	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	1	TR6
34	TKRC102M--	TR	KRC 102-M (TAPPING)	1	TR7

●Remocon ASS'Y(3108402950)

NO	PART NAME	SPEC	PART CODE	Q'TY	REMARK
1	CASE-A	ABS380	3101100510	1	
2	CASE-B	BAS380	3101100600	1	
3	CUSHION KEY	SILICON 6U	3101405900	1	
4	SPRING A	SUS304	3105100600	1	
5	SPRING B	SUS304	3105100700	1	
6	COMMON SPRING	SUS304	3105100800	1	
7	SCREW A	M1.9*6.5	3108495110	3	
8	RESONATOR	RJ-455BL	5ZAR455---	1	X1
9	ELEC CONDENSOR	10VB 47M	CEAF10475M	1	C1
10	CHIP CONDENSOR	CETMK212F221Z-T	HCQD220MQ	2	C2,3
11	CHIP RESISTOR	1/10W 1.5 OHM	HRFT159JCP	1	R1
12	CHIP RESISTOR	1/10W100K OHM	HRFT104JCP	3	R2,3,4
13	TRANSISTOR	STN2222	TSTN2222-	1	Q1
14	LED IR	SI5312-H	DS5312-H--	1	IR1
15	IC REMOCON	PT2221	14EZPT2221	1	U1
16	COVER BTRY	ABS	3101405900	1	
17	PCB REMOCON	FR-1	3104302000	1	
18	HOLDER REMOCON	ABS	3103003400	1	

7. TROUBLE SHOOTING GUIDE

TROUBLE	SITUATION	ANALYSIS	CAUSE	REMEDY
Fan motor and compressor do not run	1. Power failure	1) Power plug	1) Power failure	●Consult your electric company
		2) Circuit breaker	2) Circuit breaker is tripped	●In case of a breaker, turn it on and off a few times
			3) Power plug is not contacting	●Replace the power plug
	2. Power is supplied, but the equipment does not run	1) receptacle	●Disconnection	●Repair or replace the receptacle
		2) Cord or lead wire to the switch	1) Disconnection	●Replace the cord or lead wire
			2) Malfunction of contact	
compressor does not run	1. Not operating at all	1) Compressor	●Disconnection or burned-out	●Replace the compressor or connection wire
		2) Thermister	1) Failure	●Replace
			2) Malfunction	●Repair or replace
			3) Mode is not set to the proper setting	●Resetting mode.
		3) O.L.P	1) Turn over	●Wait until return it.
				●Replace
		4) Capacitor	●Lack of capacity ●Disconnection	●Repair
	2. Compressor	1) Electricity	1) The voltage exceeded allowed range	●Consult your electric company
			2) Capacity of wire is not sufficient	●Check the capacity of wire
				●Ventilate well and remove the heat source
		2) Room temperature and outside temperature	●Extremely high or Low	
			●Burned-out	●Replace
		3) Compressor	●Malfunction	●Replace
		4) O.L.P	●Lack of capacity	●Replace
		5) Capacitor		
	3. Frequent start and stop	1) Thermister	●Malfunction	●Replace
		2) Capacitor	●Lack of capacity	●Replace
		3) O.L.P	●Turn over	●Wait until return it.

TROUBLE	SITUATION	ANALYSIS	CAUSE	REMEDY
The compressor runs but the motor doesn't run		1) Fan 2) Fan motor 3) Capacitor 4) Fan motor circuit	●Blocked by others ●Disconnection or burned-out electric cord ●Failure malfunction of contact ●Disconnection of malfunction of contact	●Repair ●Replace the fan motor ●Replace ●Check the circuit
Both fan motor and compressor are running but cooling or heating is bad	Not cooling at all Not heating at all	Refrigerant system	1) Refrigerant system is choked 2) Compressor failure 3) Leakage of refrigerant gas	●Repair ●Repair ●Recharge refrigerant gas
	Insufficient cooling or heating	1) Refrigerant system 2) Filter 3) Heat exchanger of condenser	1) Refrigerant system is choked 2) Compressor failure 3) Leakage of refrigerant gas 4) Refrigerant charge is too high ●Clogged up with dust 1) Fin is cogged up with dust 2) The ventilation is not good 3) The unit is exposed to the sunlight 4) Other heat source is added in the room	●Check and repair refrigerant system ●Replace ●Check a part of Leakage and repair ●Repair and recharge ●Clean the air fiter ●Clean the unit ●Shade the unit from the sunlight ●Remove the added heat source
Vibration & Noise		1) Installation place 2) Fan 3) Fixing screws 4) Electric components	●Installation of the unit is imperfectly done 1) Fan is contacted with obstacles 2) Fixing bolt ●Have a screw loose ●Electrical noise	●Install the unit perfectly ●Remove obstacles ●Tighten the bolt ●Tighten the screw ●Exchange the components
Water leakage into room		●Installation condition	●The front is lower than rear side	●Make rear side of the unit lower than the front
Electric shock (Leakage of current)		●Insulation of components	1)Insulation defect of wiring and lead wire 2) Leakgae of current due to the dew or rust	●Check the unit's Leakage of current. ●Replace the defective parts or components

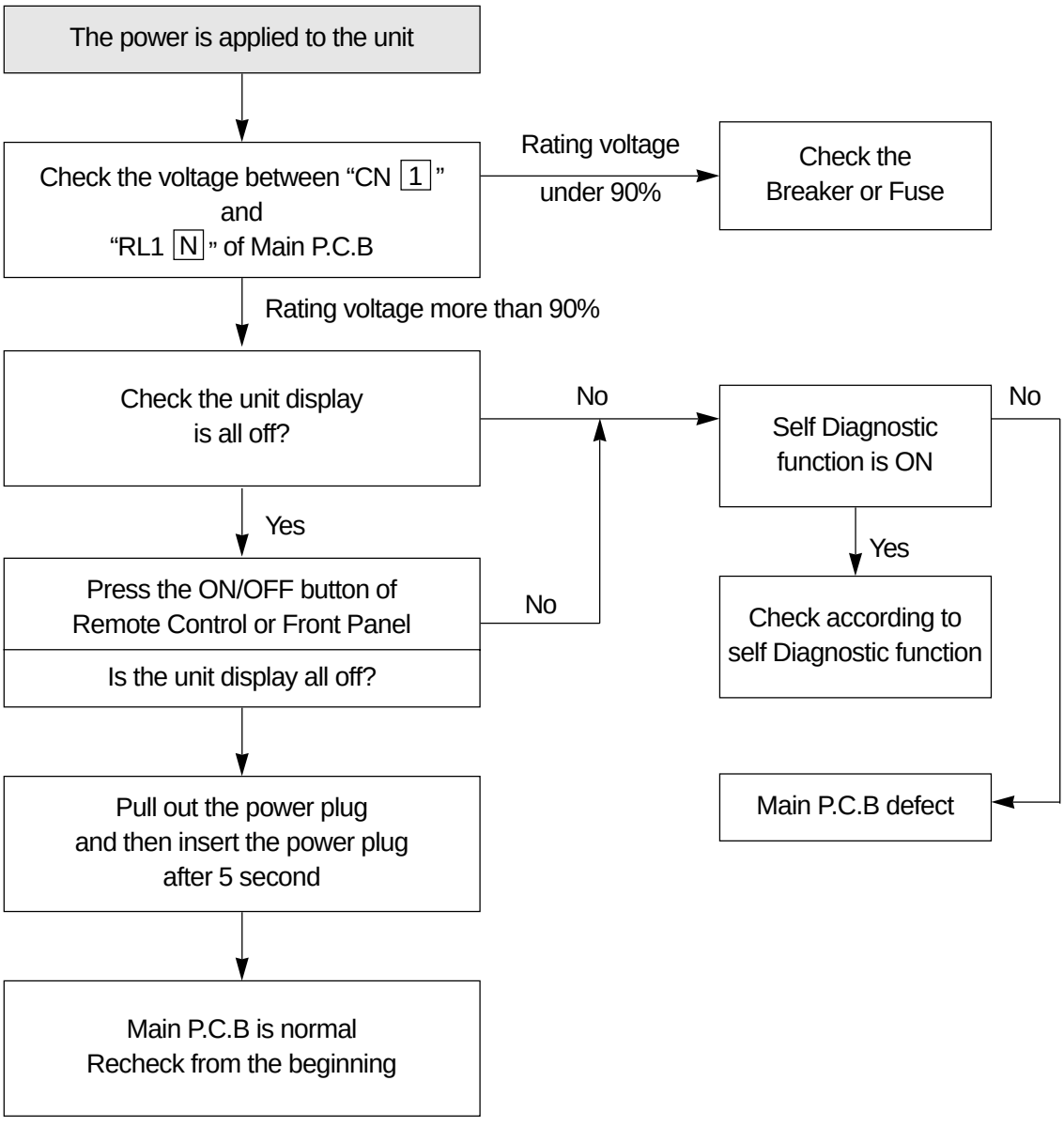
Self-Diagnostic Function

1) Error Code E1 or E2

① Check the connector of room air thermistor. (or connecting wire)
② Check soldering of connecting on control P.C.B. (Error of soldering or short)
③ Check the resistance of room air thermistor.

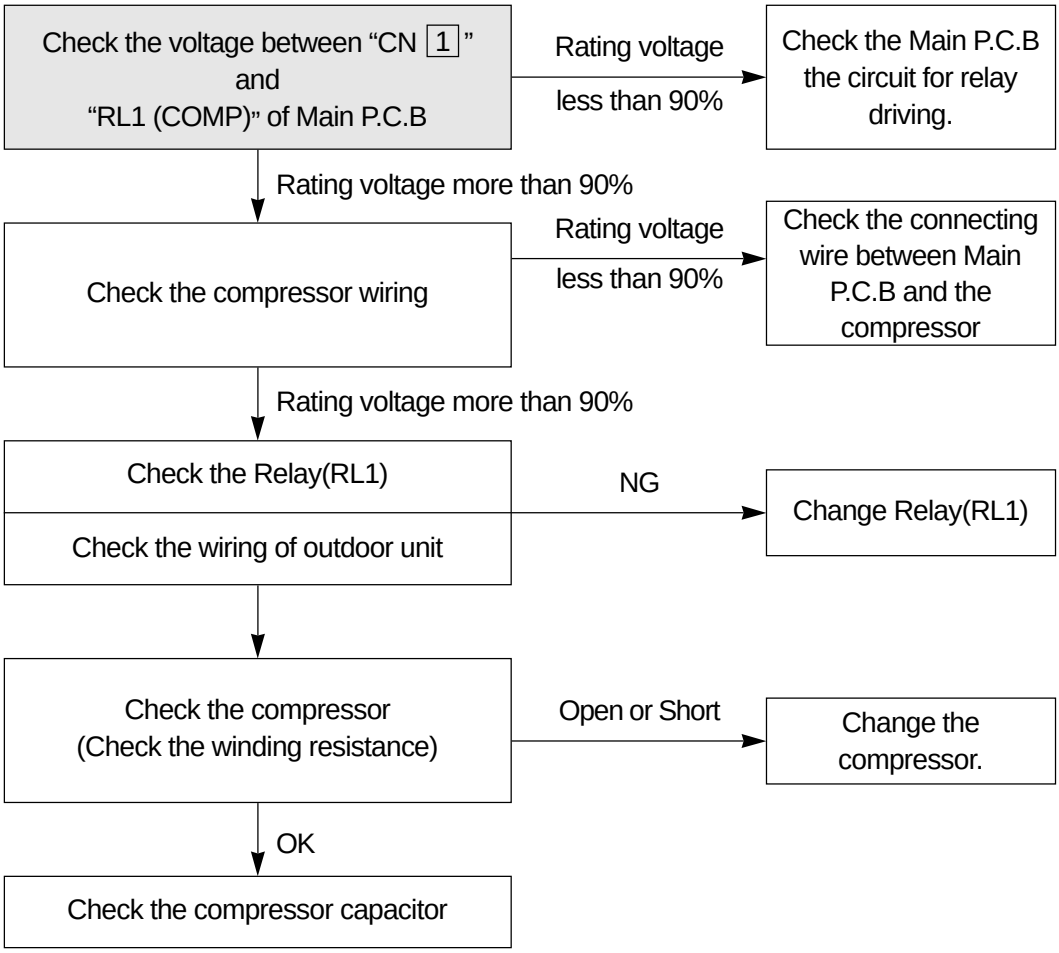
"Press the temperature Keys (Up & Down), Error code is displayed."

Unit Not Run


The power is applied to the unit
Check the voltage between "CN 1" and "RL1 N" of Main P.C.B
Rating voltage under 90%
Check the Breaker or Fuse
Rating voltage more than 90%
Check the unit display is all off?
No
Self Diagnostic function is ON
No
Yes
Check according to self Diagnostic function
Press the ON/OFF button of Remote Control or Front Panel
No
Is the unit display all off?
Yes
Pull out the power plug and then insert the power plug after 5 second
Main P.C.B defect
Main P.C.B is normal Recheck from the beginning

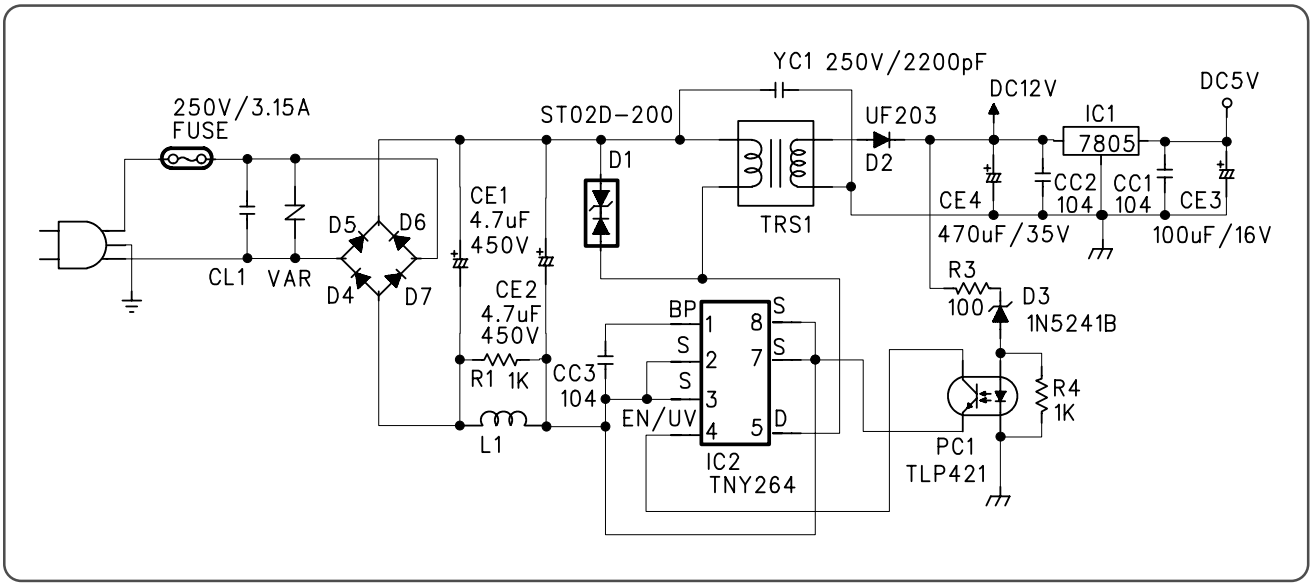
Only Compressor Do not Run

- Check the following at cooling mode


Check the voltage between "CN 1" and "RL1 (COMP)" of Main P.C.B
Rating voltage less than 90%
Check the Main P.C.B the circuit for relay driving.
Rating voltage more than 90%
Check the compressor wiring
Rating voltage less than 90%
Check the connecting wire between Main P.C.B and the compressor
Rating voltage more than 90%
Check the Relay(RL1)
Check the wiring of outdoor unit
NG
Change Relay(RL1)
Check the compressor (Check the winding resistance)
Open or Short
Change the compressor.
OK
Check the compressor capacitor

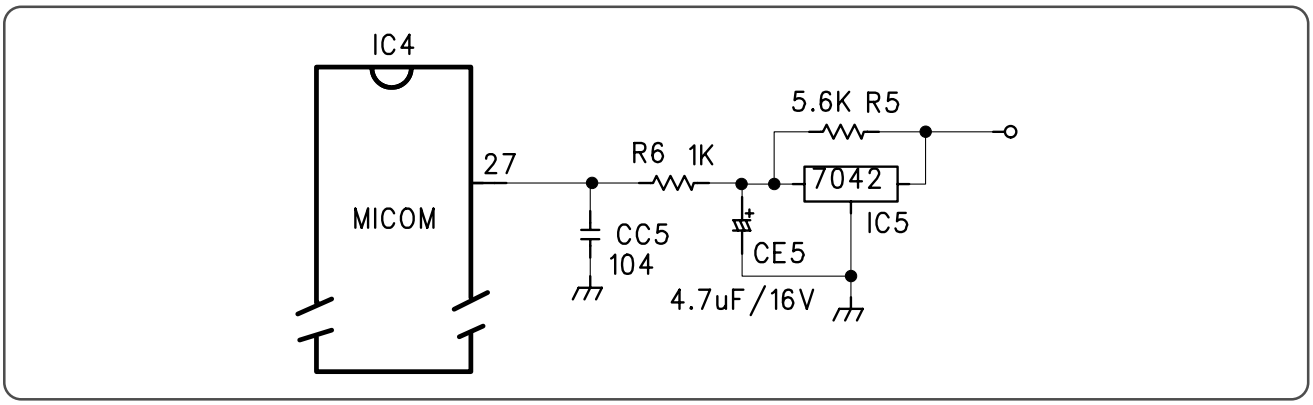
PCB DRIVING DESCRIPTION

1. Power Supply Circuit



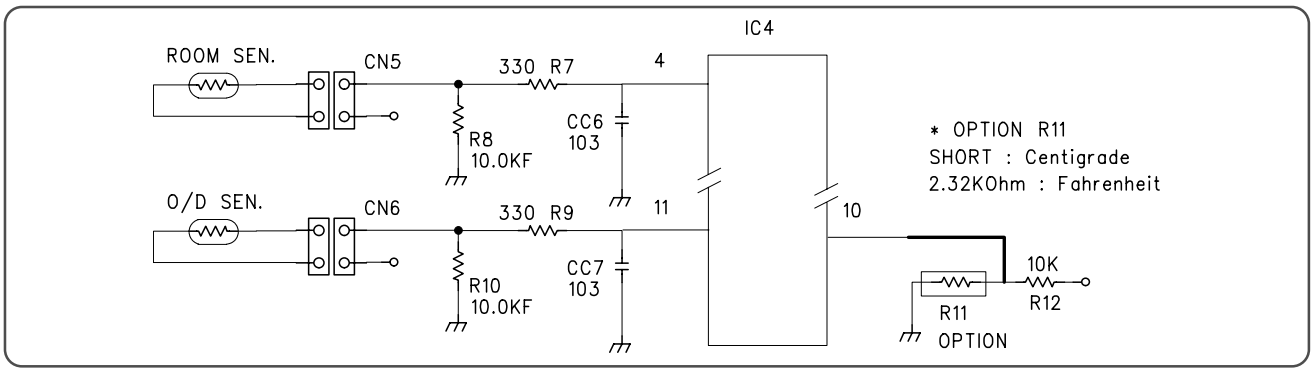
DC 12V and DC 5V Power source circuit.
Diode D4~D7 : Rectifier Diodes
Condenser CE1 and CE2 : Smoothing circuit components.
DC 12V Power output is made by switching performance of Device IC2 and TRS1.
DC 12V Power is used for Relay and Buzzer driving.
DC 5V is regulated by IC1. It is used for LED display, Sensor, Key and Micom driving.
Regulation of DC12V is performed by PC1 and its voltage feedback signal.
And the others are generally used for noise consumption.

2. Reset Operation Circuit



Micom IC4 is operated by IC5 and its signal. Generally, DC5V is checked at port 27 of IC4.
R5 and CE5 : Parts for determine reset signal timing when the power is ON and OFF.

3. Sensor Signal Input Circuit and Option



Port 4 of IC4 is terminal of A/D converter input.
Room temperature is sensing by change of temperature resistance.
The input voltage is determined by ratio between R8 (10.0 KΩ) and Room sensor value.

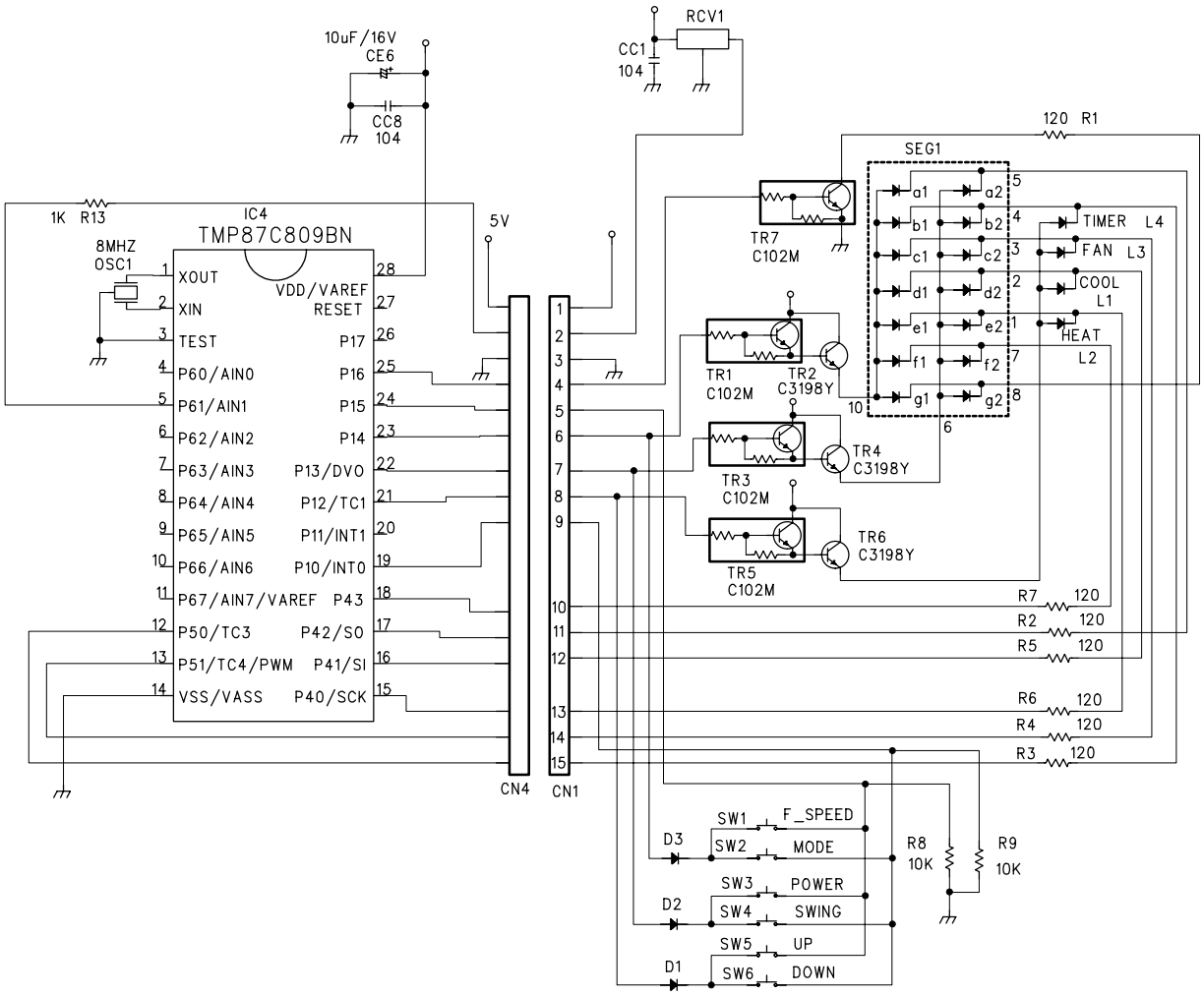
Relation between temperature and input voltage is as following.

Temperature (°C)	Sensor resistance (KΩ)	Input Voltage (V)
-5	43.67	0.932
0	33.40	1.152
5	25.79	1.397
10	20.10	1.661
15	15.80	1.938
20	12.52	2.220
25	10.00	2.500
30	8.05	2.770
35	6.52	3.027

Port 10 of IC1 is a type of temperature display option port.
It is determined by ratio between R11 and R12.
Relation between R1 and Display temperature type is as following.

R11(KΩ)	Input Voltage(V)	Temperature display type
SHORT	0V	Centigrade (°C)
2.32	0.95V	Fahrenheit (°F)

4. Display drive and Key Input Circuit



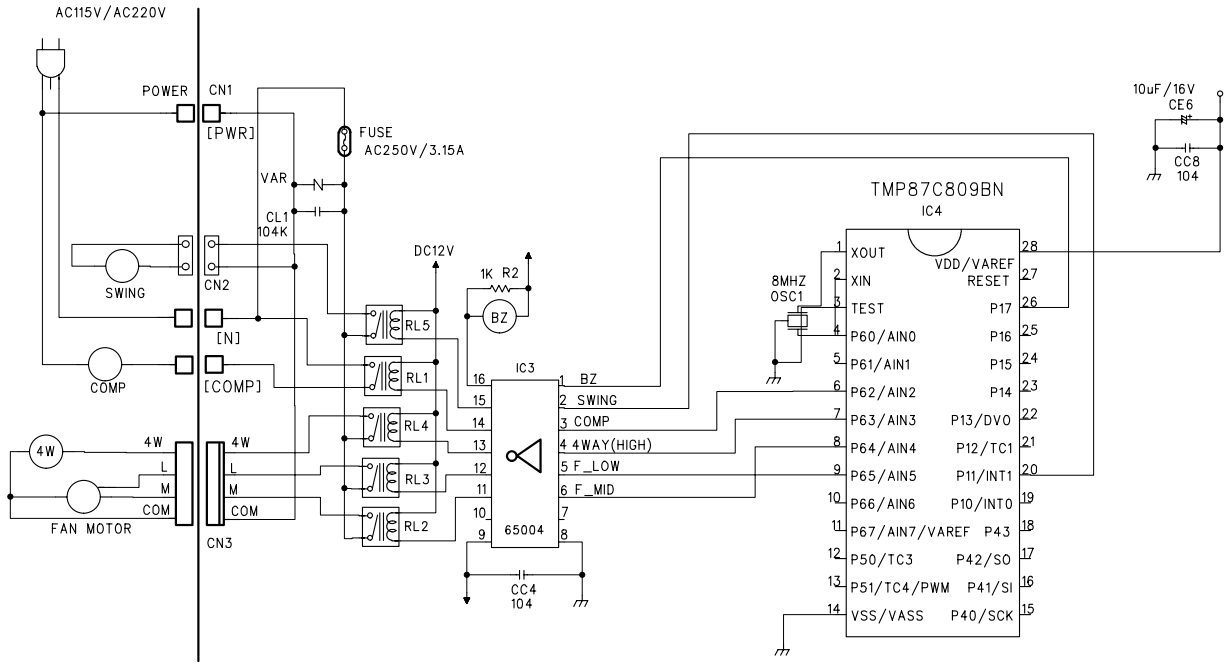
Display operation is dynamic scan drive type. It has 1/3 duty cycle.
Scan signal output : Port 21, Port 22, Port 23
TR1~TR6 : Scan signal drive circuit
R1~R7 : LED current limit resistance .(for 6 high current output port 12,13,15,16,17,18)
Port 19, Port 24 of IC4 : Key signal input by scan.

Oscillatory frequency is 8MHz. It is made up resonator oscillatory frequency.
Oscillatory wave is sine wave shape.

The remote control signal input is detacted at port 5 of IC4.

CE6 and CC8 : Noise protection parts

5. Relay and Buzzer drive Circuit

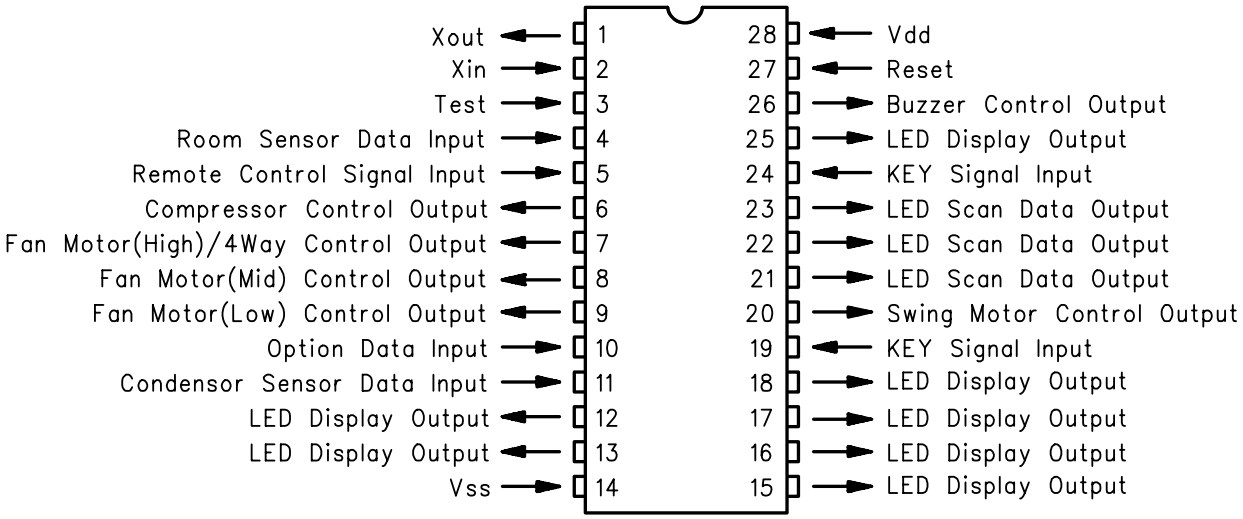


Port 6,7,9 of IC4 : Relay ON and OFF drive signal output.
IC3 : Relay ON and OFF drive device.
Fan Motor ON/OFF and Speed control : RL2, RL3, RL4
Compressor ON/OFF control : RL1.
Swing Motor ON/OFF control : RL5

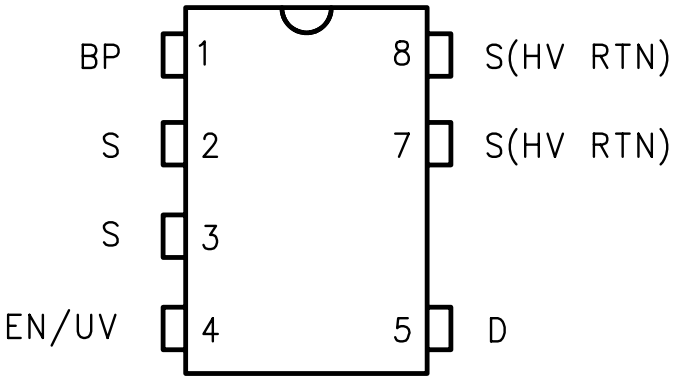
Buzzer is operated by Port 26 of IC4. Operative frequency is 2 KHz, 1/2 duty pulse.

8. KEY COMPONENTS OF ELECTRIC CIRCUIT

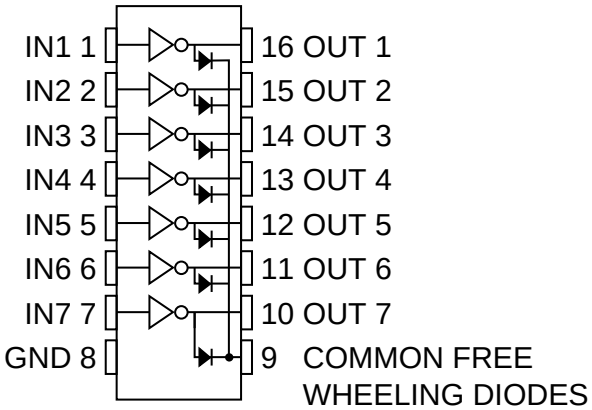
(1) IC4 (TMP87C809N) MICOM



(2) IC2 (TNY264) SMPS SWITCH IC

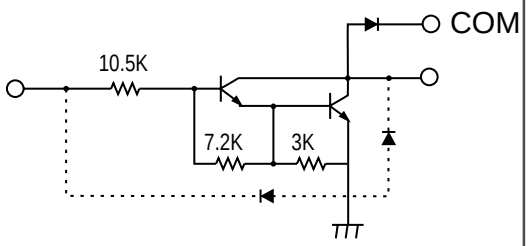


(3) U2(TD62004AP) DARLINGTON ARRAYS



(Top View)

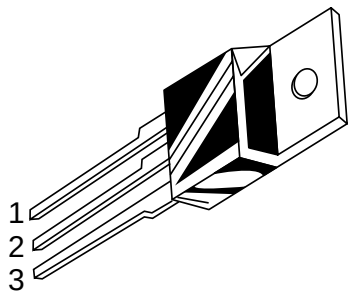
KID65004AP



(Equivalent Circuit)

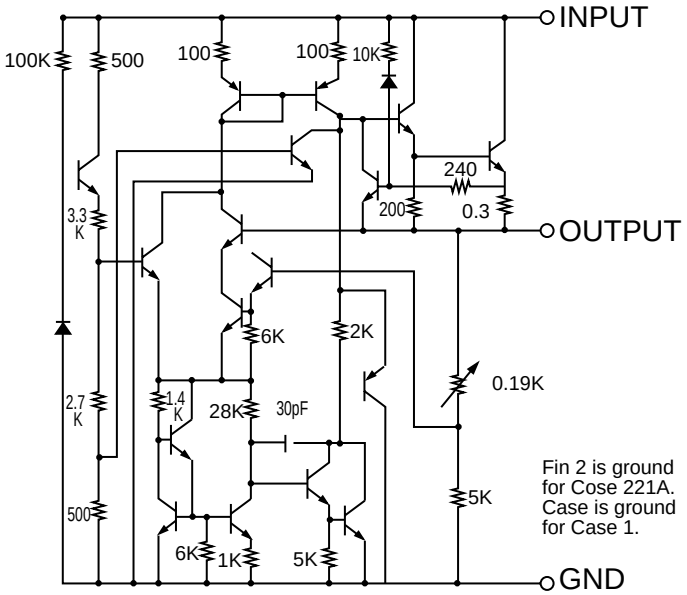
(4) U7 (7805CT): VOLTAGE REGULATOR (5VDC)

TSUFFIX
PLAASTIC PACKAGE
CASE 221A
TO-220TYPE



Pin 1. INPUT
2. GROUND
3. OUTPUT

SCHEMATIC DIAGRAM



Fin 2 is ground for Cose 221A. Case is ground for Case 1.

9. DISASSEMBLY INSTRUCTIONS

• DWB-180RH-R/DWB-240RH-R

Please refer to the chapter 10 (Exploded diagram and parts list).

1	Before service of any part.	1. Stop the unit, remove the power cord from the receptacles. 2. Move the unit to the safe location for the suitable work.
2	Ass'y Fan Motor - Fan Motor - Propeller Fan - Blower Fan	1. Remove Front Grille - Remove Filter Pre. - Remove screw(2 point) in Front Grille. 2. Remove Cabinet from the unit. - Remove screws (2 point) from the unit's sides. 3. Remove Holder Scroll. 4. Remove Scroll upper 5. Remove Ass'y Control Box - Remove screws (4 point). - Remove wires in the each components. 6. Remove wires in the Panel Housing. 7. Remove screws (4 point) from Ass'y Fan Motor's sides. - Ass'y Fan Motor is assembly of Fan Motor, Propeller and Blower Fan, Orifice and Panel Housing. 8. Lift the Ass'y Fan Motor from the unit. 9. Remove Clip Fan (2 point) from the shaft of Fan Motor. 10. Remove Propeller Fan from the shaft of Fan Motor. 11. Remove Blower Fan from the shaft of Fan Motor. 12. Remove Fan Motor from Panel Housing. - Remove screws (4 point).
3	Ass'y Control Box - Panel Control - Main Pcb - Front Pcb - Capacitor - Power Cord	1. Same as the procedure 1 to 5 in the Item 2.
4	O.L.P	1. Same as the procedure 1 to 2 in the Item 2. 2. Remove Terminal Cover from Compressor. - Remove hex-nut (1 point).

• DWB-186RH-R / DWB-246RH-R

Please refer to the chapter 10 (Exploded diagram and parts list).

1	Before service of any part.	1. Stop the unit, remove the power cord from the receptacles. 2. Move the unit to the safe location for the suitable work.
2	Ass'y Fan Motor - Fan Motor - Propeller Fan - Blower Fan	1. Remove Front Grille - Open the grille upward by pulling out the bottom of the grille, lift it. - Remove screw which fasten Frame Grille with driver. - Disassemble Frame Grille from chassis. 2. Remove the unit from Cabinet. - Remove screws (2 point) from the unit's sides. - Pull the unit from cabinet 3. Remove Holder Scroll. 4. Remove Scroll upper 5. Remove Ass'y Control Box - Remove screws (4 point). - Remove wires in the each components. 6. Remove wires in the Panel Housing. 7. Remove screws (4 point) from Ass'y Fan Motor's sides. - Ass'y Fan Motor is assembly of Fan Motor, Propeller and Blower Fan, Orifice and Panel Housing. 8. Lift the Ass'y Fan Motor from the unit. 9. Remove Clip Fan (2 point) from the shaft of Fan Motor. 10. Remove Propeller Fan from the shaft of Fan Motor. 11. Remove Blower Fan from the shaft of Fan Motor. 12. Remove Fan Motor from Panel Housing. - Remove screws (4 point).
3	Ass'y Control Box - Panel Control - Main Pcb - Front Pcb - Capacitor - Power Cord	1. Same as the procedure 1 to 5 in the Item 2.
4	O.L.P	1. Same as the procedure 1 to 2 in the Item 2. 2. Remove Terminal Cover from Compressor. - Remove hex-nut (1 point).

10. EXPLODED DIAGRAM AND PARTS LIST.

■ DWB-180RH-R/DWB-240RH-R PARTS LIST

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
1	3100066221	ASS'Y PAN BASE	1	DWB-180CH-R H/P	
2	3106002200	COMP BOLT	3	M8*L41.6(OD 10)	
3	3100002900	ASS'Y SEAL CAP DRAIN	1	SEAL C/DRAIN ASSY	
4	3106600910	SCROLL LOWER	1	EPS H/P	
5	3106700400	CAM	1	POM	
6	3104600110	RING VENT	1	NBR P6	
7	3101700300	LEVER VENT	1	PP(LG, H-540)	
8	3100066510	ASS'Y EVAPORATOR	1	DWB-180CH-R, 4R-4C, H/P, 1.8	
9	3100074001	AS PIPE EVA OUT	1	DWB-180CH-R, H/P	
10	3100074101	AS PIPE EVA IN	1	DWB-180CH-R, H/P	
11	3100073001	AS PIPE CAPILLARY	1	DWB-180CH-R, H/P	DWB-180RH-R
	3100073010	AS PIPE CAPILLARY	1	DWB-240CH-R, H/P	DWB-240RH-R
12	3104431501	PIPE COND	1	OD 9.52*T0.7	
13	3106600810	SCROLL UPPER	1	EPS H/P	
14	3117103600	COMPRESSOR	1	H2EB243ABKC 220/240V 20.3K	DWB-180RH-R
	3117103700	COMPRESSOR	1	H2EB283ABKC 220/240V 50HZ	DWB-240RH-R
15	7400208412	WASHER PLAIN	3	ID 8.4 * OD 26 * T1.6	
16	7392801211	NUT LOCK	3	M8*1.25P	
17		GROMMET	3	EPDM	COMP ACCESSORY PART
18		GASKET	1	SILICON	COMP ACCESSORY PART
19		COVER TERMINAL	1		COMP ACCESSORY PART
20	3112709710	HARNESS COMP2	1	#14 AWG*3(DWB-180C-R)	
21	3107000500	FAN CLIP	2	SK-5	
22	3101802800	FAN BLOWER	1	ABS(ABS-730)	
23	3104202301	PANEL HOUSING	1	SGCC T1.0 DWB-180C	
25	3101406502	COVER SCROLL	1	SGCC T0.6	
26	3101406601	COVER SIDE	1	SGCC T0.6	
27	3108005411	FAN MOTOR	1	A2938CA010	DWB-180RH-R
	3108005511	FAN MOTOR	1	A2945CA012	DWB-240RH-R
28	3100701500	BUSHING GUIDE	1	NBR	
29	7S432X5121	SPECIAL SCREW	4	TT3 HEX 5X12 STAR MFZN	
30	3110096200	ASS'Y COVER ORIFICE	1	DWB-180C-R	
31	3103800500	LOCK WIRE-STANDOFF	2	DAWS 116	
32	3101802901	FAN PROPELLER	1	ABS+GF20% NATURAL	DWB-180RH-R
	3101802900	FAN PROPELLER	1	ABS+GF20% (PIE 8.0)	DWB-240RH-R
33	3100058250	ASS'Y CABINET WL	1	DWB-184C-R	
34	3108505301	SEAL CABINET TOP(F)	1	F-US+660*T5*50	
35	3108505360	SEAL CABINET TOP(R)	1	F-US+660*T5*110	

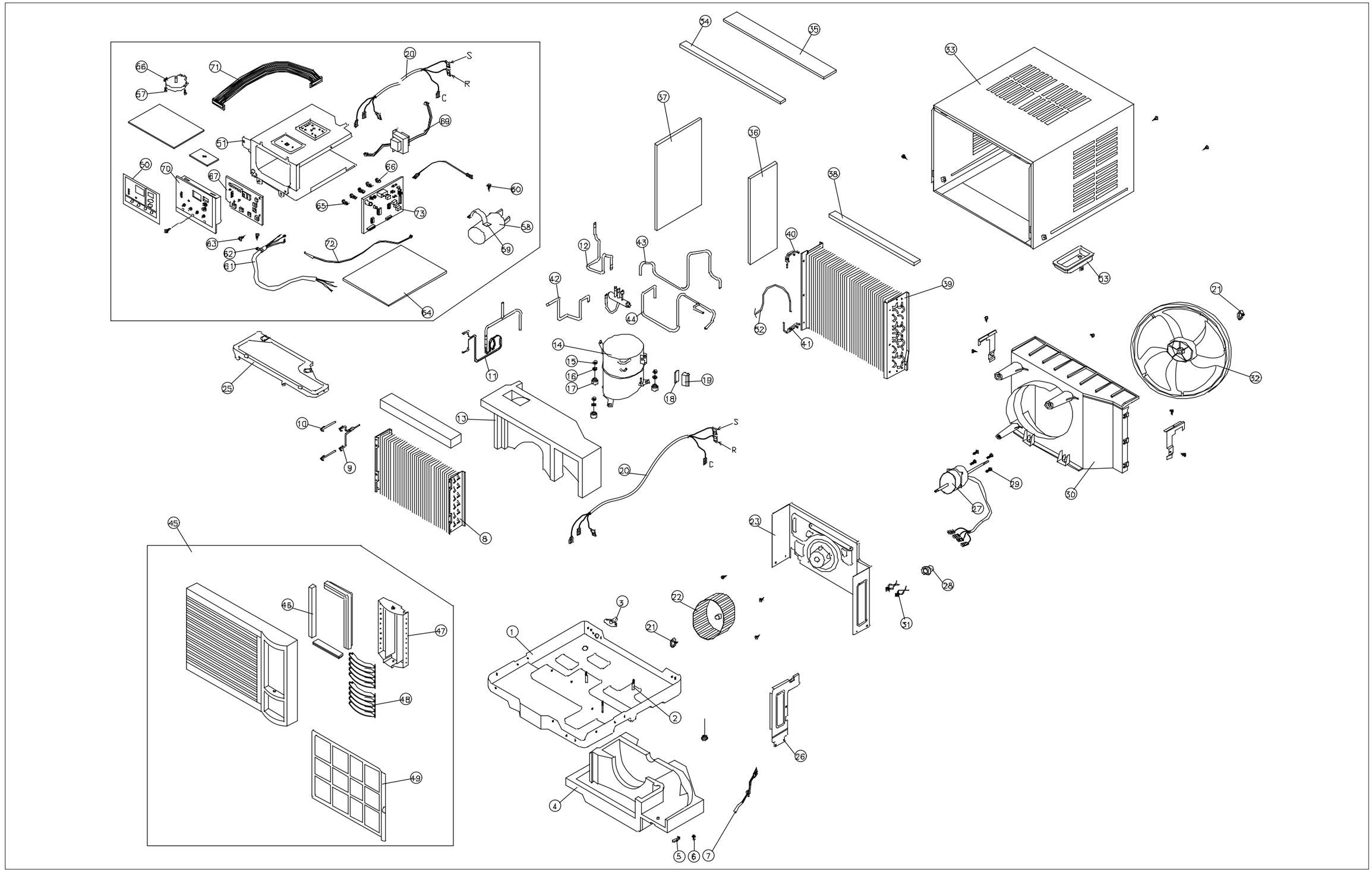
No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
36	3108505501	SEAL CABINET SIDE(R)	1	F-US+130*T10*370	
37	3108505401	SEAL CABINET SIDE(L)	1	F-US+200*T10*370	
38	3108505600	SEAL COND TOP	1	F-US+70*T5*560	
39	3100066310	ASS'Y CONDENSER	1	DWB-180CH-R 3R-2C H/P 2.0	
40	3100070811	AS PIPE COND IN	1	DWB-180CH-R H/P	
41	3100070911	AS PIPE COND OUT	1	DWB-180CH-R H/P	
42	3104431300	PIPE 4-WAY EVA	1	C1220T-0L OD 12.7*T0.7	
43	3100074601	AS PIPE DISCHARGE	1	DWB-180CH-R H/P	
44	3100074501	AS PIPE SUCTION	1	DWB-180CH-R H/P	
45	3100067930	ASS'Y GRILLE FRONT	1	DWA-180R	
	3100072500	AS SEAL G/FRONT(2)	1	DWA-240C-R D/GRY	
46	3108505230	SEAL GRILLE FRONT(3)		F-PE	
47	3106502202	BLADE VERTICAL	1	HIPS(HI-450) 18K,24K	
48	3106502100	BLADE HORIZENTAL	2	PP(LG, H-540)	
49	3101902201	FILTER PRE	1	HIPS+MESH #PP32	
50	3101601520	DECO FRONT	2	NEW PCB(DWB-180RH-R)	
51	3100509211	BOX CONTROL	1	SGCC T0.8 ELECTRO TYPE	
52	3102709920	HARNESS OD SENSOR	1	TSD310DAACX15	
53	3100075800	ASS'Y CABINET DRAIN	1	DWB-180CH-R	
56	3966031000	SWING MOTOR	1	200/220V 50/60 HZ(DS-090R)	
57	7112300611	SCREW TAPPING	2	T1. TRS M3*6	
58	3109504500	CAPACITOR	1	7.5+35µF 400VAC D63(SH)	DWB-180RH-R
	3116904400	CAPACITOR	1	7.5+40µF 400VAC	DWB-240RH-R
59	3101201500	CLAMP CAPACITOR	1	SGCC-M-Z22(LG)	
60	7122401011	SCREW TAPTITE	1	T1 TRS 4*10	
61	3101300430	POWER CORD	1	SJT(AWG#14*3) ARABIA	
62	3101201900	CLAMP POWER CORD	1	DA-6N	
63	7122401011	SCREW TAPTITE	1	T1 TRS 4*10	
64	3108505801	SEAL CONTROL BOX	1	F-PE 210*160*T2	
65	3105000100	SPACER LOCKING	4	DABS-8R	
66	3105000110	SPACER BOARD	1	DACBS-8R	
67	3114306100	ASS'Y FRONT PCB	1	DWC-125,184,240R,240RH(12K.)	
68	3108402900	ASS'Y REMOCON	1	SIMPLE WINDOW T. 12/15K	
69	5EPU040100	TRANSFORMER	1	DWA-230V 220/14.5V 0.3A	
70	3104202500	PANEL CONTROL	1	HIPS(HI-450,L-GRAY)	
71	3102708510	HARNESS DISPLAY	1	15*26 AWG	
72	3102709930	HARNESS COIL SENSOR	1	10KΩ, 1200mm, 3P	
73	3114306800	ASS'Y MAIN PCB	1	DWC-184,240RH-R(HP/18,24K)	
74	3113522200	LABEL SPEC	1		DWB-180RH-R
	3113516110	LABEL SPEC	1		DWB-240RH-R
75	3113516201	MANUAL OWNER'S	1		

■ DWB-186RH-R/DWB-246RH-R PARTS LIST

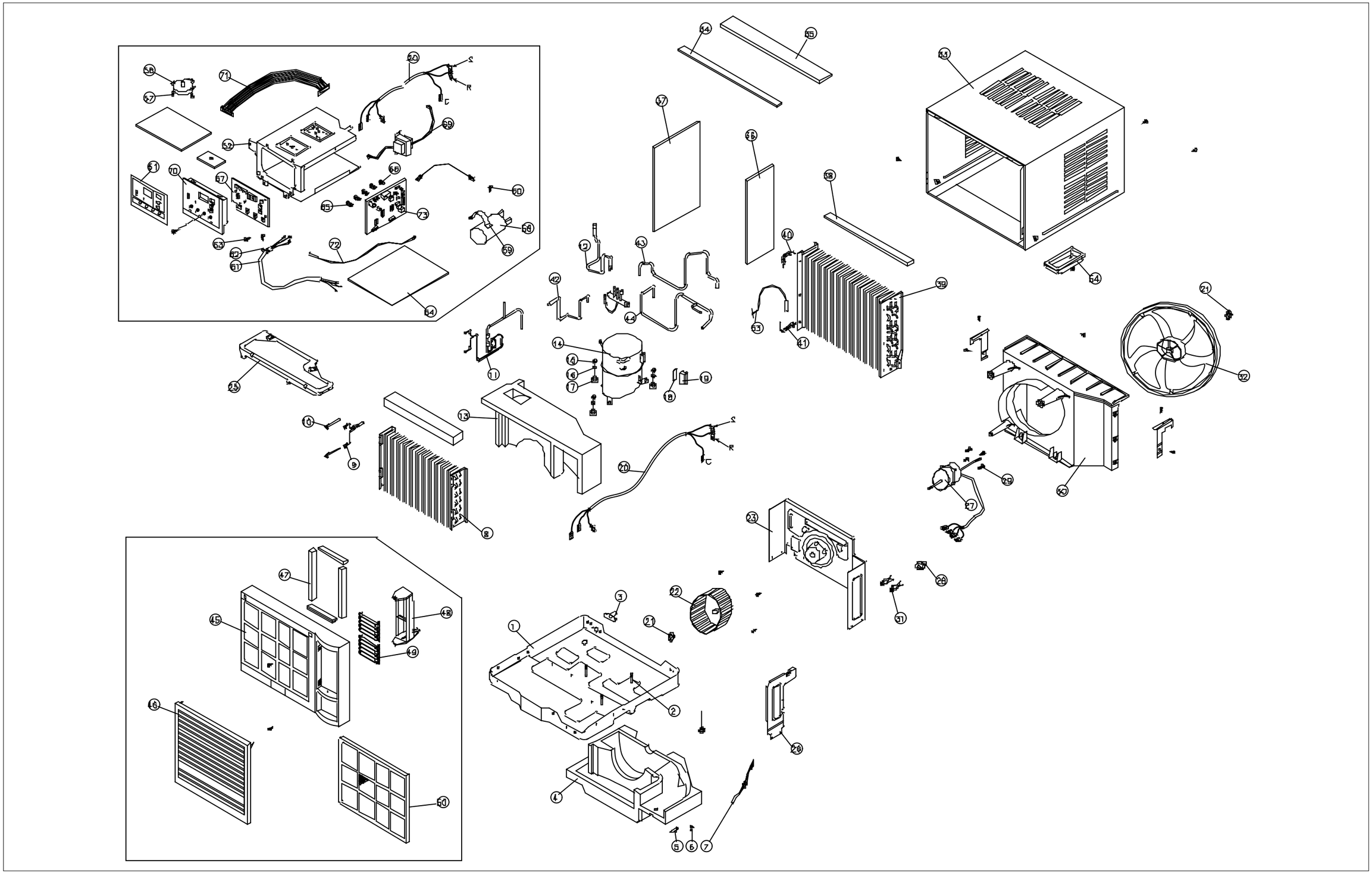
No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
1	3100066221	ASS'Y PAN BASE	1	DWB-180CH-R H/P	
2	3106002200	COMP BOLT	3	M8*L41.6(OD 10)	
3	3100002900	ASS'Y SEAL CAP DRAIN	1	SEAL C/DRAIN ASSY	
4	3106600910	SCROLL LOWER	1	EPS H/P	
5	3106700400	CAM	1	POM	
6	3104600110	RING VENT	1	NBR P6	
7	3101700300	LEVER VENT	1	PP(LG, H-540)	
8	3100066510	ASS'Y EVAPORATOR	1	DWB-180CH-R, 4R-4C, H/P, 1.8	
9	3100074001	AS PIPE EVA OUT	1	DWB-180CH-R, H/P	
10	3100074101	AS PIPE EVA IN	1	DWB-180CH-R, H/P	
11	3100073001	AS PIPE CAPILLARY	1	DWB-180CH-R, H/P	DWB-186RH-R
	3100073010	AS PIPE CAPILLARY	1	DWB-240CH-R, H/P	DWB-246RH-R
12	3104431501	PIPE COND	1	OD 9.52*T0.7	
13	3106600810	SCROLL UPPER	1	EPS H/P	
14	3117103600	COMPRESSOR	1	H2EB243ABKC 220/240V 20.3K	DWB-186RH-R
	3117103700	COMPRESSOR	1	H2EB283ABKC 220/240V 50HZ	DWB-246RH-R
15	7400208412	WASHER PLAIN	3	ID 8.4 * OD 26 * T1.6	
16	7392801211	NUT LOCK	3	M8*1.25P	
17		GROMMET	3	EPDM	COMP ACCESSORY PART
18		GASKET	1	SILICON	COMP ACCESSORY PART
19		COVER TERMINAL	1		COMP ACCESSORY PART
20	3112709710	HARNESS COMP2	1	#14 AWG*3(DWB-180C-R)	
21	3107000500	FAN CLIP	2	SK-5	
22	3101802800	FAN BLOWER	1	ABS(ABS-730)	
23	3104202301	PANEL HOUSING	1	SGCC T1.0 DWB-180C	
25	3101406502	COVER SCROLL	1	SGCC T0.6	
26	3101406601	COVER SIDE	1	SGCC T0.6	
27	3108005411	FAN MOTOR	1	A2938CA010	DWB-186RH-R
	3108005511	FAN MOTOR	1	A2945CA012	DWB-246RH-R
28	3100701500	BUSHING GUIDE	1	NBR	
29	7S432X5121	SPECIAL SCREW	4	TT3 HEX 5X12 STAR MFZN	
30	3110096200	ASS'Y COVER ORIFICE	1	DWB-180C-R	
31	3103800500	LOCK WIRE-STANDOFF	2	DAWS 116	
32	3101802901	FAN PROPELLER	1	ABS+GF20% NATURAL	DWB-186RH-R
	3101802900	FAN PROPELLER	1	ABS+GF20% (PIE 8.0)	DWB-246RH-R
33	3100058250	ASS'Y CABINET WL	1	DWB-184C-R	
34	3108505301	SEAL CABINET TOP(F)	1	F-US+660*T5*50	
35	3108505360	SEAL CABINET TOP(R)	1	F-US+660*T5*110	
36	3108505501	SEAL CABINET SIDE(R)	1	F-US+130*T10*370	
37	3108505401	SEAL CABINET SIDE(L)	1	F-US+200*T10*370	
38	3108505600	SEAL COND TOP	1	F-US+70*T5*560	

No.	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
39	3100066310	ASS'Y CONDENSER	1	DWB-180CH-R 3R-2C H/P 2.0	
40	3100070811	AS PIPE COND IN	1	DWB-180CH-R H/P	
41	3100070911	AS PIPE COND OUT	1	DWB-180CH-R H/P	
42	3104431300	PIPE 4-WAY EVA	1	C1220T-0L OD 12.7*T0.7	
43	3100074601	AS PIPE DISCHARGE	1	DWB-180CH-R H/P	
44	3100074501	AS PIPE SUCTION	1	DWB-180CH-R H/P	
45	3112201410	FRAME GRILLE	1	HIPS(WH1302A)	
46	3112405800	GRILLE	1	HIPS(WH1302A)	
47	3118401800	SEAL FRAME LEFT	1	F-PE	
-	3118401500	SEAL FRAME BOTTOM	1	F-PE	
-	3118401600	SEAL FRAME RIGHT	1	F-PE	
-	3118401700	SEAL FRAME UPPER	1	F-PE	
48	3116502000	BLADE VERTICAL	1	HIPS(WH1302A)	
49	3116501900	BLADE HORIZENTAL	1	PP	
50	3101902201	FILTER PRE	1	HIPS+MESH #PP32	
51	3111602510	DECO FRONT	1	NEW PCB, GOLD, H/P	
52	3100509211	BOX CONTROL	1	SGCC T0.8 ELECTRO TYPE	
53	3102709920	HARNESS OD SENSOR	1	TSD310DAACX15	
54	3100075800	ASS'Y CABINET DRAIN	1	DWB-180CH-R	
56	3966031000	SWING MOTOR	1	200/220V 50/60 HZ(DS-090R)	
57	7112300611	SCREW TAPPING	2	T1. TRS M3*6	
58	3109504500	CAPACITOR	1	7.5+35μF 400VAC D63(SH)	DWB-186RH-R
	3116904400	CAPACITOR	1	7.5+40μF 400VAC	DWB-246RH-R
59	3101201500	CLAMP CAPACITOR	1	SGCC-M-Z22(LG)	
60	7122401011	SCREW TAPTITE	1	T1 TRS 4*10	
61	3101300430	POWER CORD	1	SJT(AWG#14*3) ARABIA	
62	3101201900	CLAMP POWER CORD	1	DA-6N	
63	7122401011	SCREW TAPTITE	1	T1 TRS 4*10	
64	3108505801	SEAL CONTROL BOX	1	F-PE 210*160*T2	
65	3105000100	SPACER LOCKING	4	DABS-8R	
66	3105000110	SPACER BOARD	1	DACBS-8R	
67	3114306100	ASS'Y FRONT PCB	1	DWC-125,184,240R,240RH(12K.)	
68	3108402900	ASS'Y REMOCON	1	SIMPLE WINDOW T. 12/15K	
69	5EPU040100	TRANSFORMER	1	DWA-230V 220/14.5V 0.3A	
70	3104202500	PANEL CONTROL	1	HIPS(HI-450,L-GRAY)	
71	3102708510	HARNESS DISPLAY	1	15*26 AWG	
72	3102709930	HARNESS COIL SENSOR	1	10KΩ, 1200mm, 3P	
73	3114306800	ASS'Y MAIN PCB	1	DWC-184,240RH-R(HP/18,24K)	
74	311359AQ00	LABEL SPEC 1			DWB-186RH-R
	311359AR00	LABEL SPEC 1			DWB-246RH-R
75	3113913000	MANUAL OWNER'S	1		

■ DWB-180RH-R / DWB-240RH-R



■ DWB-186RH-R / DWB-246RH-R



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